WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

Art.No. 0890 100...



WÜRTH

COMPANY PROFILE

Würth Means quality everywhere and every time





VISION | WÜRTH GROUP

Our vision: Becoming the number 1 in the eyes of our customers as the best sales team. As a family business with a strong corporate culture, the Würth Group is very well-positioned to achieve this goal.

OUR MISSION

Our mission is to develop long-standing and mutually beneficial relationships with our customers, suppliers and employees. We provide superior quality products and services that exceed our customer expectations. We are committed to build upon our brand as being synonymous with the best in the industry, a brand that our stakeholders will be proud of.

OUR PRINCIPLES

We request and promote achievements.
The greater the success, the more freedom and liberty.
We are optimistic, dynamic and have powers of self-assertion.
We passionately fight for success.
We consistently pursue everything that has proven to be successful, and we try out new things.
We strive for perfection in every area of our activities.
We assume responsibility for our actions, work in mutual respect and appreciation, are straightforward and predictable in everything we do.
The term we consider most important in dealing with each other is ''Thank You''.

ABOUT WÜRTH GROUP

The Würth Group is the global market leader in its core business:

- Established in 1945 in Germany
- Established in 2000 in UAE
- Around 120,000 products
- The sale and manufacturing of fastening and assembly materials.
- In more than 80 countries, Würth Group has 83,000 employees and 2,400 pickup shops.





OUR STRATEGY

Quality
True to its motto "Quality beats price," Würth is positioned at the very top of the quality spectrum: We do not only offer top-notch quality when it comes to our products, but also for our services.

Würth - a strong brand
We want to inspire our customers – all over the world, with identical quality and the same brand promise. This means that we support our customers actively and in a solution-oriented manner. This way, they can focus on their business. We are working passionately to optimize our products and services constantly.

The sales force is the company's heart and soul
One of our particular strengths and a key to the Würth Group's success story is the system of direct selling through our sales force organization.

More than 33,000 permanently employed sales representatives all over world advise our customers and see to it that craft and industry businesses are offered product solutions tailored to their needs as well as optimal services. Thanks to our specialization through the divisions Automotive, Cargo, Metal, Maintenance, Maritime, Installation, Industry, Construction, Wood, every sales representative is a competent contact in his/her line of business, ensuring individual advice. This approach makes Würth a reliable partner for its 3.9 million customers worldwide.

Active in the market over 80 countries
We are a global player and currently active on all five continents with more than 400 Würth companies. Thanks to this strong presence, our customers, be they a small craft enterprise or an international industry business, can reach us easily. They are certain to receive Würth's top-rate product and service quality wherever they may be.

At the same time, the Würth Group's decentralized structure provides the possibility to react flexibly to the requirements of local markets and answer to individual needs.



"Sports, Fun & Games in the Würth Collection": The exhibition at Kunsthalle Würth in Schwäbisch Hall focuses on the phenomenon of leisure on 1st November 2022.

WÜRTH CARES

The Würth Group and the Würth Foundation contribute to a vibrant cultural landscape and the people's social welfare. The Group runs, for instance, five museums in the German Hohenlohe region and another ten associated galleries across Europe that display international works of art, mainly from the Würth Collection. Würth Philharmoniker as the musical ensemble of Reinhold Würth Musikstiftung gGmbH is the result of the Group's involvement in classical music. In addition, the Würth Group ond the Würth Foundation are committed to helping people with a disability. Hotel-Restaurant Anne-Sophie and our commitment at the Special Olympics ore examples for this. Another focus is on education and research, be that at Freie Schule Anne-Sophie schools, funded by the Würth Foundation, or Reinhold Würth Hochschule. The Würth Group's main sports sponsoring focus is on soccer and winter sports.

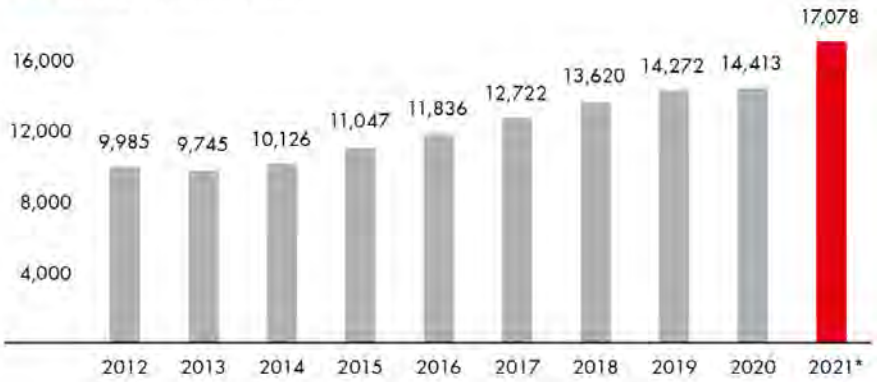
The Würth Group also lives up to its environmental responsibility. Being carbon neutral and operating in a circular way are focus topics. Adolf Würth GmbH & Co. KG wants to be carbon-neutral at all sites in Germany by 2024. The Sustainability Report that will be published in the fall of 2022 will contain information about the Group's sustainable activities.

FACTS AND FIGURES

Würth Group 2021

Sales

Würth Group in millions of EUR



* preliminary

Operating result before taxes

Würth Group in millions of EUR

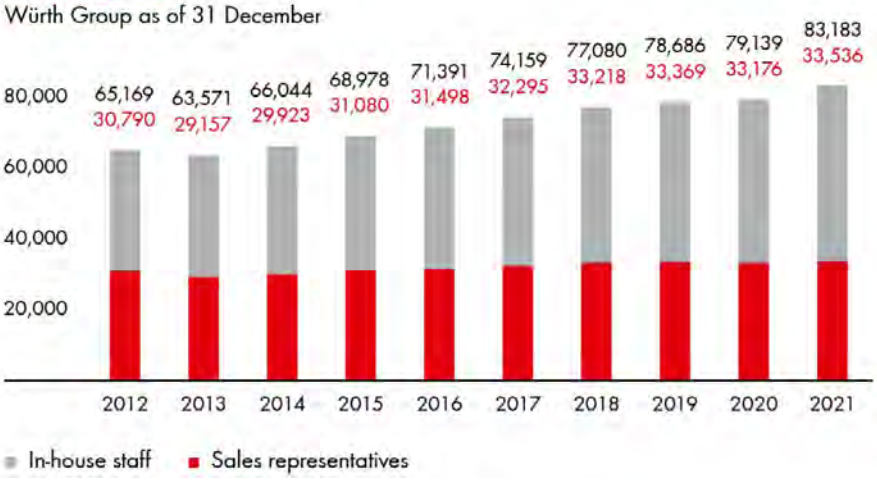


The consolidated financial statements of the Würth Group are prepared in accordance with the International Financial Reporting Standards (IFRS).

*preliminary

Employees

Würth Group as of 31 December



THE 2021 FISCAL YEAR

According to the preliminary annual financial statement, **the Würth Group** reported a sales volume of EUR 17.1 billion in 2021 (2020: EUR 14.4 billion), corresponding to a plus of 18.5 percent or 19.0 percent adjusted for currencies. In Germany, the Würth Group's sales grew by 14.1 percent to EUR 6.9 billion (2020: EUR 6.1 billion). With EUR 10.2 billion (2020: EUR 8.3 billion), the Würth companies abroad achieved even more successful results.

According to the preliminary consolidated financial statements, **the operating result** of the Würth Group is clearly up on the previous year with EUR 1.2 billion (2020: EUR 775 million).

The number of employees increased by 4,044 to 83,183 in 2021 (2020: 79,139 employees). In Germany, the number of employees amounts to 25,438. Around the world, the Würth Group employs more than 33,000 sales representatives.

New administration building

In close proximity to the main administration building at the Künzelsau-Gaisbach site, Würth plans to build a new office and administration building. It will be a 49-meter high-rise offering around 375 work spaces. Adolf Würth GmbH & Co. KG launched an international architectural design contest for the planning and implementation of this construction project. Stuttgart-based architects ORANGE BLU building solutions won with its "sculpture of sustainability" design. The focus of this building project is on sustainability and circular economy: It will be based on a hybrid wood construction. The high proportion of prefabricated wood elements will reduce the carbon footprint.

The new building is a clear commitment of the Group to the development of the Hohenlohe location, while also corroborating the further growth of the Würth Group's parent company.

THE CORPORATE GROUP

The success story of the Würth Group

Adolf Würth laid the foundation in 1945 when he set up Adolf Würth GmbH & Co. KG in Künzelsau, today's parent company of the Würth Group. After his father's early death in 1954, Reinhold Würth took over at the helm of the family business at the age of 19. The company began to expand into international territory in 1962 as the first foreign company was founded in the Netherlands. Today, the Würth Group is the global market leader in its core business: the sale and manufacturing of fastening and assembly materials. The Würth Group is operating worldwide and currently consists of more than 400 companies with more than 2,400 pick-up shops in over 80 countries. The group of companies has more than 83,000 employees.

The Operational Units of the Würth Group

The Würth Group is divided into two operational units: Würth Line and Allied Companies. In the Würth Line's core business, the sale and manufacturing of assembly and fastening materials, the Würth Group is a firmly established market player. Offering a range of more than 125,000 products, Würth is a reliable partner for more than four million customers from the trades and industry. Other trading and production companies, known as the Allied Companies, operate in related business areas, ranging from electrical wholesale and electronics to financial services. The performance of the Würth Group is distinguished by customer proximity, services and excellent quality.



Construction works of the new administration building in Künzelsau are scheduled to begin in 2024.

DIVISIONS

AUTOMOTIVE

Targets customers like car garages, vehicle fleets, automotive refurbishers and dealers. Including authorized dealerships of car manufacturers and independent workshops as well as special shops and service providers. Concentrates on consumables for repairs to chemical-technical products for maintenance, servicing and bodywork, and tools for pneumatic and electrical machines.

- **Cargo Subdivision**

Targets customers like authorized dealers and independent workshops as well as specialized workshops and commercial vehicle service providers. Concentrates on fastening, assembly and cleaning products required especially for the maintenance, repair and servicing of commercial vehicles in these segments.

CONSTRUCTION

Encompasses all sales units responsible for serving customers in the buildings industry, extension and facade, finishing trades, construction companies, roofers, plasterers, stucco masons, dry construction firms and direct supplies to building sites.

- **CSPM Subdivision**

Construction-Site-Project-Management Division focuses on larger scale building contractors civil engineering and road construction and offers customized logistics solutions, such as building site containers filled with products.

METAL

Targets customers like metalworking and metal processing industries such as metal & steel fabricators, filters, and machine & vehicle manufacturers. Concentrates on requirements of anchor & dowel systems, tools & electrical machines as well as DIN and standard parts for operating & processing variable metals.

- **Maintenance Subdivision**

Targets customers like in-house repair shops of industrial enterprises, facility and installation maintenance of hotels, airports, sewage plants, clinics and hospitals, theaters, recycling companies as well as garden and landscape specialists. Concentrates on complete product range for minor repairs and products for servicing, maintenance and care.

WOOD

Targets customers in the entire woodworking and wood processing trade, typically interior design and decoration, furniture, windows and doors , exhibition stand manufacturing and installation. Concentrates on product spectrum covers furniture fittings, the entire range of fastening materials and sealing technology as well as tools, machines, abrasives and chemical-technical products.



Würth Gulf

Is part of The Würth Group. We are the supplier of Fasteners, Automotive Chemicals, Hand Tools & Electrical Supplies also Construction, Assembly Items, Sealants, Power Tools & Safety Solutions.
Established in 2000, Würth Gulf FZE is one of the leading suppliers in the Middle-East. Existing industrial companies and developing organizations alike can benefit from the uparalleled selection, quality and unbeatable service that is synonymous with the Würth brand.



OUR VISION

Becoming the number 1 in the eyes of
our customers as the best and most qualified sales team.

OUR MISSION

We love selling.
We inspire our customers.

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WE SERVE THE FOLLOWING MARKET SECTOR:

- Auto Workshops
- Construction Companies
- Industrial Companies
- Metal and Fabrication
- Maintenance and Repair Shops
- Oil and Gas Sector
- All other Manufacturing sectors.

OUR PRODUCT RANGE

- Automotive/Cargo Accessories and Spare Parts
- Chemical Technical Products
- Concrete Anchors and Fixings
- Construction Accessories
- Electrical
- Fasteners/Fittings
- Fire Protection Systems
- General Tools/Equipment
- Hand and Power Tools
- Lubricants and Degreasers
- Master ® Power Tools
- Material Processing
- Orsy® Assortments and Workshop Equipment
- Personal Protective Equipment (PPE)
- Sanitary
- Sealants and Adhesives
- Service and Systems
- Workshop/Garage Equipment



Over 3 million customers

Worldwide, there are over 400 Würth companies in more than 80 countries and more than 70,000 employees on its payroll. This guarantee our customers can rely on our high quality, excellent service and innovative products.

To each customer Würth allocates our Sales Consultant, who is strongly focused on the individual needs of the client. We have adopted this attitude to benefit you, the customer. Our daily commitment helps us to find new approaches so that we always improve. We aim to supply every customer with every article at any time in any place. We therefore have developed modular systems and logistics tailored to the individual needs of the customers. In October 2009, we won the German Logistics Award for this concept.

Our philosophy

We owe it to Prof. Reinhold Würth that the Würth Group has a clear business orientation: It is marked by a strong brand policy, future-oriented product strategy, closeness to the customer, clear quality offensive, thinking in terms of visions and not least by a strong corporate culture. Bettina Würth, Prof. Reinhold Würth's daughter and Chairwoman of the Advisory Board together with the members of the Central Managing Board see to it that these values are filled with life and developed further.

WÜRTH

WÜRTH GULF SUBMITTAL

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TRADE LICENSE



حكومة دبي
GOVERNMENT OF DUBAI

DUBAI
للاقتصاد والسياحة
Economy and Tourism

رخصة تجارية
Commercial License

License Details / تفاصيل الرخصة

License No.	572033	رقم الرخصة	
Company Name	WURTH GULF (L L C)	اسم الشركة	وورث جلف (شركة ذات مسئولية محدودة)
Business Name	WURTH GULF (L L C)	الاسم التجاري	وورث جلف (ش ذ م م)
License Category	Dep. of Economic Development	فئة الرخصة	دائرة التنمية الاقتصادية
Legal Type	Limited Liability Company - Single Owner(LLC - SO)	الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م)
Expiry Date	05/08/2026	تاريخ الإنتهاء	Issue Date 06/08/2005 تاريخ الإصدار
D&B D-U-N-S ® N	561529749	الرقم العالمى	Main License No. 572033 رقم الرخصة الام
Register No.	1778252	رقم السجل التجارى	DCCI No. 99967 عضوية الغرفة

License Members / الاطراف

رقم الشخص/No.	الإسم / Name	الجنسية / Nationality	الصفة / Role	الحصص / Share
1162256	وورث جلف م م ح WURTH GULF FZE	United Arab Emirates / الامارات	Shares Owner / مالك حصص	100.00%
1070435	جيان لوس مارسيل تيسمار JEAN LUC MARCEL THESMAR	فرنسا / France	Manager / مدير	
1162255	موكانى توفيق احمد موكانى اقبال احمد MOOKANE THAUFEEQUE AHMED MOOKANE IQBAL AHMED	الهند / India	Manager / مدير	

License Activities / أنشطة الرخصة

النشاط	الحالة	Status	Activity
تجارة المواد المقاومة والمانعة لإنتشار الحريق	فعال	Active	Fire Resistant & Retardant Materials Trading
تجارة عامة	فعال	Active	General Trading

Print Date 07/08/2025 20:09 تاريخ الطباعة

Receipt No. رقم الإيصال

الإمـــارات
THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجي مسح رمزالاستجابة السريعة

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العنوان / Address

صندوق بريد	17036	P.O. Box	
رقم القطعة	613-767	Parcel ID	
البريد الإلكتروني	mohamed.elsadig@wurth.ae	Email	

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

تليفون	971-4-8834229	Phone No	
فاكس	971-4-8834303	Fax No	
هاتف متحرك	971-50-7098917	Mobile No	

الملاحظات / Remarks

نقل الموقع بتاريخ 5/5/2015

رقم الإيصال Receipt No.

تاريخ الطباعة 20:09 07/08/2025 Print Date

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GOVERNMENT OF DUBAI

دبي للاقتصاد والسياحة
Economy and Tourism

شهادة شهر قيد شركة فى السجل التجارى
Commercial Register

تفاصيل القيد / Register Details

رقم القيد	1778252	Register No.	
الاسم التجاري	وورث جلف (شركة ذات مسئولية محدودة)		
الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م.)		
تاريخ الإصدار	03/08/2005	Reg. Date	
الرقم العالمي	561529749		

Main Lice. Nr	572033	رقم الرخصة الأم	
Business Name	WURTH GULF (L L C)		
Legal Type	Limited Liability Company - Single Owner(LLC - SO)		
Expiry Date	05/08/2026	تاريخ الإنتهاء	
D&B D-U-N-S ® No.			

تفاصيل راس المال / Capital Details

الإسمى	300,000.00	Nominated	
المدفوع	300,000	Paid	
عدد الأسهم	300	No. of Shares	
العملة	درهم إماراتي	Currency	UAE Dirhams

عنوان الرخصة / License Address

عنوان السجل التجاري / Commerce Address

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

أنشطة السجل / Register Activities

تجارة المواد المقاومة والمانعة لإنتشار الحريق	Fire Resistant & Retardant Materials Trading
تجارة عامة	General Trading

Print Date	07/08/2025	20:09	تاريخ الطباعة	Receipt No.	رقم الإيصال

الإمارات
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الفروع / Branches

رقم الرخصة License No	الاسم التجارى Business Name
961444	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1007865	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1218999	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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Receipt الرصيد

Receipt Date	**07/08/2025**	**تاريخ الإيصال**	**Receipt No**	**16705333**	**رقم الإيصال**
Business Name	WURTH GULF (L L C)			ورث جلف)ش ذ م م(	**اسم الشخص**
Procedure	Renew License,Modify Location			Renew License,Modify Location	**نوع الاجراء**
P.V.Nr.	**24404931**	**رقم إذن الدفع**	**License Nr.**	**572033**	**رقم الرخصه**
Payment Mode	eGovernment Online Payment			eGovernment Online Payment	**كيفية الدفع**
Amount in Words	Twenty One Thousand Eight Hundred and Fifteen Dirhams			واحد وعشرون الفا وثمانمئة وخمسة عشر درهما	**القيمة بالحروف**

Print Date 07/08/2025 20:09 **تاريخ الطباعة** **Receipt No.** **رقم الإيصال**

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دبي
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Economy and Tourism

عزيزي التاجر،،

يرجى اخذ التعليمات التالية بعين الاعتبار:

1. عدم القيام بتغيير موقع الترخيص والانتقال الى موقع اخر دون الحصول على موافقة الدائرة.

2. ضرورة ان يكون الاسم التجاري المدون على اللافتة مطابق للاسم المدون بالرخصة مع ضرورة كتابته بحجم واحد.

الحرص على أن تكون اللافتة باللغتين العربية والانجليزية و بالشكل التالي:

- يكتب الاسم التجاري باللغة العربية في يمين اللافتة وباللغة الإنجليزية تجاه اليسار.

- يكتب الاسم التجاري باللغة العربية بنفس حجم الاسم المكتوب باللغة الانجليزية

- يكتب الاسم التجاري باللغة العربية أعلى الاسم المكتوب باللغة الانجليزية

3. الحرص على استخراج تصريح للافتات الاضافيه والعلامات التجارية على اللافتة.

4. عدم تظليل الواجهة أكثر من 50%

5. عدم العمل لساعات اضافية بعد الساعة 12:00 بعد منتصف الليل الا بعد استخراج تصريح.

6. عدم اجراء التنزيلات او التصفيات او العروض الخاصه بدون تصريح.

7. عدم اجراء اي تعديل او تغيير بيانات الترخيص الا بعد الرجوع للدائرة.

8. الالتزام بكتابة الاسعار على السلع والبضائع.

9. طباعة ووضع بطاقة حماية المستهلك (كن على حق واعرف حقوقك كمستهلك) في مكان بارز من موقع الدائرة www.consumerrights.ae

10. للمستهلك الحق في الحصول على فاتورة الشراء.

11. الاعلان عن سياسة البيع للمستهلك عبر وسيلة اعلان مناسبة شاملة (لعملية الاسترجاع او الاستبدال او الاصلاح للسلع)

12. عدم الترويج عن منتج عن طريق المندوبين، أو الاتصال أو غير ذلك وعدم البيع بطريقة المناداه

13. استخراج تصريح لمستودعات التخزين الخاصة بالمنشأة المرخصة أو تصريح للمكاتب الإضافية أو الاكشاك.

14. يجب على المطاعم وضع قائمه الطعام باللغتين العربيه والانجليزيه.

15. يجب وضع واعتماد قائمة الاسعار الخاصة بالصالونات الرجالية والنسائية ووضعها في مكان بارز.

16. يجب ان تكون الاسعار المعلنه مشمولة القيمة المضافه 5%

17. يجب عرض الفاتورة بشكل تفصيلي موضحا فيها القيمه الاجماليه للسلع والخدمات وقيمة الضريبه المضافه.

18. عدم القيام بالترويج او البيع او العرض لأية بضائع مقلدة أو مغشوشة.

Dear Merchants,

Kindly take the following instruction into high consideration:

1. It is not allowed to change the location registered in the license to move to another address unless DET approval is obtained.
2. The business name on the signboard must conform to the name mentioned in t license and typed in one size.

The business name must be in both Arabic and English as follows:

- The business name in Arabic must be placed on the right hand side of the signboard whereas the English text on the left hand side.
- The Arabic text must be in same size of the English equivalent
- The Arabic business name must be placed above the English equivalent.

3. A commercial permit must be issued for additional signboards and for placing trademarks on the signboard.
4. Text must not occupy more than 50% of the signboard.
5. Shops operating hours must not exceed 12:00 am unless a permit is issued.
6. Discounts, sales or special offers must not be announces unless a permit is issu
7. It is not allowed to apply any amendments or change the license details unless approved by DET.
8. Prices must be placed on products and goods.
9. The Consumer Protection Card (Be Right and Know Your Consumer Rights) mu be typed and placed visibly above the DET website www.consumerrights.ae
10. Consumers have the right to receive a purchase receipt.
11. Announce the sale policy to consumer through suitable applicable channels (t clarify procedures for goods replacement, repair and refund).
12. It is not allowed to promote products through agents, telephone calls, or othe ways or yelling.
13. Permits must be issued for warehouses of licensed business or additional offi or kiosks.
14. Restaurants must place a menu in both Arabic and English languages.
15. Place an approved price list for services provided by ladies and gentlemen salons at a visible area.
16. The displayed price list should be inclusive of 5% VAT
17. Invoices must clearly reflect the total amount of the purchased goods, service and VAT.
18. Avoid promoting or selling or displaying any counterfeited goods.
19. To protect trade marks, it must be registered by the Ministry of Economy.
20. The Department of Economy & Tourism in Dubai has the right to suspend or

رقم الإيصال **Receipt No.** **تاريخ الطباعة** 20:09 07/08/2025 **Print Date**

الإمارات
THE EMIRATES

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجى مسح رمز الاستجابة السريعة
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شهادة تسجيل العضوية
Membership Certificate

License no.	572033	572033	رقم الرخصة
Membership no.	99967	99967	رقم العضوية
Registration no.	1778252	1778252	رقم السجل التجاري
Business Name	WURTH GULF (L L C)	وورث جلف (ش ذ م م)	الاسم التجاري
Legal Status	Limited Liability Company - Sing	شركة ذات مسؤولية محدودة - الشخص	الشكل القانوني
Activity	Fire Resistant & Retardant Materials Trading General Trading	تجارة المواد المقاومة والمانعة لإنتشار الحريق تجارة عامة	نوع النشاط
Member Since	06/08/2005	06/08/2005	تاريخ الإنتساب
Date of Issue	06/08/2005	06/08/2005	تاريخ الإصدار
Expiry Date	05/08/2026	05/08/2026	تاريخ الإنتهاء

Remarks

This certificate shall be invalid incase of any alteration without chamber's authorization

For online verification of this Certificate, please visit our website http://www.dubaichamber.ae/verify

الملاحظات

تعتبر هذه الشهادة لاغية في حال أي كشط أو تعديل عليها دون اعتماد ذلك من الغرفة

للتأكد من صحة بيانات الشهادة يرجى الرجوع إلى موقع الغرفة http://www.dubaichamber.ae/verify

غرفة تجارة وصناعة دبي
Dubai Chamber of Commerce & Industry

P.O. Box 1457 - Dubai, U.A.E. | Tel (Within UAE) 800 CHAMBER (800 2426237) | Tel (Outside UAE) (+971) 4 2280000 هاتف
Fax (+971) 4 2211646 فاكس | customercare@dubaichamber.ae | www.dubaichamber.ae

WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

TECHNICAL DATASHEET



BOND + SEAL



Elastic PU adhesive and sealant for a broad range of uses

Universal application
Outstanding adhesive strength on a wide range of materials and surfaces.

Approved for use with foodstuffs (ISEGA certificate)
- Harmless to health in hardened state
- Suitable for gluing and sealing in food processing areas

Highly elastic
- Bonding of identical and different substances possible
- Compensation of different material expansions
- Absorbs vibrations and sounds

Long skin formation time
- Allows bonding or sealing of complex components
- Also ideal for large surfaces
- Assembly components can be repositioned

Can be ground/painted
Following skin formation, can be mechanically machined and painted over without surface activation (perform preliminary tests to check paint compatibility).

Not corrosive
Avoids corroding the metal

Odourless

Silicon-free

Application
For a wide range of bonding and sealing work on surface materials such as metal, painted surfaces, wood, stone, concrete and plastic (polyester and hard PVC).

Instructions
The surfaces must be clean, dry and free from dust and grease. Processing temperature is between +5°C and +35°C.

Cartridge			
Art.no	**Color**	**Content**	**P.Qty**
0890 1001	White	300ml	12
0890 1002	Gray		
0890 1003	Black		
0890 1006	Sand beige		

Hand cartridges gun

For processing 310 ml cartridges, High-Quality Versions.

Art.No. 0891 310-A
P.Qty. 1



TECHNICAL DATA SHEET

0890 100 1	**0890 100 11**	**0890 100 181**
0890 100 2	**0890 100 21**	**0890 100 182**
0890 100 3	**0890 100 31**	**0890 100 183**
0890 100 4	**0890 100 111**	
0890 100 5	**0890 100 112**	
0890 100 6	**0890 100 113**	

Bond + Seal

Elastic PU adhesive and sealant for a broad range of uses

Fields of application:

For a range of bonding and sealing tasks. Suitable for bonding and sealing in food processing plants.

Surface:

Excellent adhesive strength on a wide range of surface materials such as metal, painted surfaces, wood, Decorative board and chipboard, cork, stone, plasterboard, aerated concrete, concrete, glass, fibre glass, porcelain, ceramic, hard foams and plastic (polyester, PMMA and hard PVC). Please see the optimisation table.

Not suitable for PE, PP, PTFE, silicone rubber, polystyrene and softened plastics.

Properties:

- For universal use Outstanding adhesive strength on a wide range of materials and surfaces
- Highly elastic
- Dampens vibrations and noise
- Long skin formation time
- Can be sanded and painted over
- Approved for use with foodstuffs (ISEGA certificate)
- Non-corrosive
- Low-odour
- Free from silicones

Surface pre-treatment:

The application surfaces must be clean, dry and free of grease. The processing temperature is between +5°C and +35°C.

Optimum adhesion results are guaranteed by pre-treating the surfaces with HaftClean activating surface cleaner (0890 100 60) and Primer for Metal (0890 100 61) or Primer for Plastic/Wood/Stone 0890 100 62).

For more information on preparing material surfaces, refer to the optimisation table below. Carry out preliminary tests where necessary!

Optimisation table

Surface/material	Optimisation steps	Notes
Aluminium (AlMg3, AlMg-Si1)	Activating Cleaner and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
Anodised aluminium	Activating Cleaner and, if necessary, Primer for Metal	
Steel (St 37 etc.)	Activating Cleaner and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary. Steel components at risk of corrosion: 2-component PU or epoxy corrosion protection required.
Stainless steel (rustproof)	AdhesionPlus primer and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
Galvanised steel (hot-dip or electrically galvanised)	AdhesionPlus primer and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
2-component top-coat paints (PU, epoxy), 2-component water-based primers and paints, cataphoretic paints, primers (EP/2C)	Activating Cleaner	Due to the large number of paints available, this information is only a guide. Please perform preliminary tests where necessary.
Powder coatings	Activating Cleaner	Preliminary testing is recommended for applications involving significant forces or a damp environment.

GFRP (unsaturated polyester), gelcoat side or SMC	Activating Cleaner	First, lightly sand with an abrasive fleece if necessary.
GFRP (unsaturated polyester), layup side	1. Lightly sand with S 80 2. Activating Cleaner 3. Primer for P/W/S	
ABS	1. Lightly sand with sanding fleece 2. Activating Cleaner 3. Primer for P/W/S	The sanding process can be omitted for parts subjected to little load.
Hard PVC	1. Lightly sand with sanding fleece 2. Activating Cleaner 3. Primer for P/W/S	The sanding process can be omitted for parts subjected to little load.
Glass (mineral)	Activating Cleaner	Adhesive surface must be protected against UV radiation (opaque cover).
Glass ceramics	Activating Cleaner	
Untreated wood and wood products (particle board)	1. Dedusting 2. Primer for P/W/S	
Concrete, mineral mortar and plasters	1. Dedusting 2. Primer for P/W/S	
Textiles, fleeces	Primer for P/W/S	Preliminary testing required; the holding of the adhesive in the fabric may be sufficient.

Application:

Cut the nozzle tip to create the required bead geometry. The adhesive must be applied using a manual, battery-powered or piston-rod-style compressed-air gun to ensure a reliable finish. Apply the adhesive in the form of a triangle of beads to ensure an even layer thickness. Material that has not cured can be removed using Remover (0890 100 63).

Following skin formation, can be mechanically machined and painted over without surface activation.

TECHNICAL DATA SHEET

A minimum adhesive layer thickness of 3 mm is recommended to harness the benefits of thick-coat bonding.

Technical data:

Chemical basis	1-component polyurethane
Curing through	Atmospheric moisture
Colour	White, grey, black, dark brown, light brown, sand beige
Processing temperature	+5°C to +35°C
Skin formation time*	Approx. 45 60 min.
Curing speed	Approx. 4 mm/24 h
Density*	Approx. 1.25 g/cm³
Change in volume (52451)	Approx. -5%
Viscosity	Paste-like
Shore A hardness (DIN 53505)	Approx. 40
Tensile strength (DIN 53504 S2)	1.8 N/mm²
Elongation at tear (DIN 53504 S2)	Approx. 500%
Resistance to further tearing (DIN 53515)	Approx. 7 N/mm
Stretching/contraction during use	Approx. 15%
Spec. resistivity (DIN 53482)	Approx. 10^{10} Ω/cm
Glass transition temperature (DIN 53445)	Approx. -45°C
Temperature resistance	-40°C to +90°C, up to 8 h at +120°C
Resistant to	Water, seawater and lime water, diluted inorganic acids and alkaline solutions
Short-term resistance to	Fuels, mineral oils, vegetable and animal fats and oils
Not resistant to	Organic acids, alcohol, stronger mineral acids and alkaline solutions, solvents
Shelf life	12 months (+10°C to +25°C) in sealed in original container

*Measured at 23°C/50% relative humidity

TECHNICAL DATA SHEET

Remarks:

- Not suitable for glass groove sealing in areas in which UV back reflection can occur. Direct exposure to sunlight can result in slight surface yellowing.
- Not suitable for expansion joints in construction applications.
- Following skin formation, can be mechanically machined and painted over without surface activation.
- Do not allow this product to come into contact with alkyd-resin paint systems.
- Avoid adhesive strengths of more than 5 mm.

This advice is based on our own research and experience. It is presented in good faith and may be considered reliable. However, due to the diverse processing, application and handling possibilities the information provided may not be considered legally binding. The same applies to the information provided by our technical and commercial customer service.

We recommend the users of our products to perform their own tests in order to determine whether our products are appropriate for the respective use and environment. We guarantee the consistent quality of our products. We reserve the right to implement technical changes and improvements.

WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

MSDS



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

08901002 - ADHESIVE&SEALING COMP GREY

Version 3.2	Revision Date 11.12.2013 Date of last issue: 03.11.2013 Date of first issue: 25.01.2011	Print Date 13.12.2013	AE / EN

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name : ADHESIVE&SEALING COMP GREY

Product code : 08901002
MSDS-Identcode : 10033267

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Adhesives, Sealant

1.3 Details of the supplier of the safety data sheet

Company : Wurth Gulf Fze
POBox 17036
Dubai
Utd.Arab Emir.
E-mail address: wurthglf@emirates.net.ae
Telephone : +9714 8834229
Telefax : +9714 8834303

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

Emergency telephone Advisory office in case of poisoning
+9714 8834229

Telephone number of the company in case of emergencies
+97150 5646023

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Classification (67/548/EEC, 1999/45/EC)

Sensitising	R42: May cause sensitisation by inhalation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	**Prevention:**	
		P261	Avoid breathing mist or vapours.
		P285	In case of inadequate ventilation wear respiratory protection.
		Response:	
		P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
		P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
- 4,4'-methylenediphenyl diisocyanate

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

no data available

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-446-0 01-2119458049-33	Xn; R65 N; R51/53 R66 R67 R10	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2 - < 2,5
xylene	1330-20-7 215-535-7 01-2119488216-32	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 2 - < 3
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 01-2119457014-47	Carc.Cat.3; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 0,75 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

General advice : Symptoms of poisoning may appear several hours later. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

If inhaled : If breathed in, move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.

In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed	:	If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Do not flush with water. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	For personal protection see section 8. Use with local exhaust ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Handle with care. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Dust explosion class	:	not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Keep in a well-ventilated place. Do not keep the container sealed.
Advice on common storage	:	Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage.
Other data	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

no data available

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
xylene	1330-20-7	TWA: 221 mg/m3, 50 ppm skin, STEL: 442 mg/m3, 100 ppm skin,	2000/39/EC	2000-06-16

Other information on limit values: see chapter 16

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.
Highly effective exhaust ventilation

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Respirator with filter type A

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Hand protection

Material : Fluorinated rubber
Glove thickness : 0,4 mm
Breakthrough time: : > 30 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection	:	Tightly fitting safety goggles In case of splash hazard, please wear protective goggles.
Skin and body protection	:	Wear suitable protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

Environmental exposure controls

General advice	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	grey
Odour	:	characteristic
Odour Threshold	:	no data available
Flash point	:	> 101 °C Method: closed cup
Ignition temperature	:	no data available
Thermal decomposition	:	no data available
Lower explosion limit	:	no data available

Upper explosion limit	:	no data available
Explosive properties	:	no data available
Flammability	:	no data available
Oxidizing properties	:	no data available
Auto-ignition temperature	:	no data available
Burning number	:	no data available
Molecular weight	:	no data available
pH	:	no data available
Vapour pressure	:	no data available
Density	:	ca. 1,26 g/cm3 at 20 °C
Bulk density	:	no data available
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	no data available
Solubility in other solvents	:	no data available
Viscosity, dynamic	:	not applicable
Viscosity, kinematic	:	> 20,5 mm2/s at 40 °C
Flow time	:	no data available
Impact sensitivity	:	no data available
Relative vapour density	:	no data available
Surface tension	:	no data available
Evaporation rate	:	no data available
Minimum ignition energy	:	no data available
Acid number	:	no data available
Refraction index	:	no data available
Miscibility in water	:	no data available
Solvent separation test	:	no data available

9.2 Other information

None known.

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting. Mixture reacts slowly with water resulting in evolution of CO2.

Stability : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Materials to avoid : Water, Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Halogenated compounds, Carbon oxides, Metal oxides

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	:	LD50 rat: > 5.000 mg/kg
xylene	:	LD50 rat, male: 3.523 mg/kg
4,4'-methylenediphenyl diisocyanate	:	LD50 rat: > 2.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l
Test atmosphere: dust/mist
Exposure time: 4 h
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Acute toxicity (other routes of administration):

no data available

Skin corrosion/irritation

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	:	Repeated exposure may cause skin dryness or cracking.
xylene	:	Species: rabbit irritating
4,4'-methylenediphenyl diisocyanate	:	Species: rabbit irritating

Serious eye damage/eye irritation

4,4'-methylenediphenyl diisocyanate	:	Species: rabbit Eye irritation

Respiratory or skin sensitisation

Sensitisation	:	May cause sensitisation by inhalation.

Germ cell mutagenicity

Genotoxicity in vitro:

no data available

Genotoxicity in vivo:

no data available

Carcinogenicity

Remarks xylene	:	Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: In vivo tests did not show mutagenic effects
4,4'-methylenediphenyl diisocyanate	:	Carcinogenicity: Limited evidence of carcinogenicity in animal studies Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

4,4'-methylenediphenyl diiso-	:	Note: No evidence of adverse effects on sexual function and fertility,

cyanate		and on development, based on animal experiments /when indicated)

Teratogenicity

xylene	:	Note: No toxicity to reproduction

STOT - single exposure

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	:	May cause drowsiness or dizziness.
4,4'-methylenediphenyl diisocyanate	:	May cause respiratory irritation.

STOT - repeated exposure

4,4'-methylenediphenyl diisocyanate	:	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration toxicity

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	:	May be fatal if swallowed and enters airways.

Neurological effects

no data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

no data available

Acute effects

no data available

Further information	:	Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

12. Ecological information

12.1 Toxicity

Toxicity to fish

xylene	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
4,4'-methylenediphenyl diisocyanate	:	LC0 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

xylene	:	EC50 (Daphnia magna (Water flea)): 1 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 EC50 (Ceriodaphnia Dubia (water flea)): > 3,4 mg/l Exposure time: 48 h
4,4'-methylenediphenyl diisocyanate	:	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 24 h Method: OECD Test Guideline 202

Toxicity to algae

xylene	:	ErC50 (Pseudokirchneriella subcapitata): 4,36 mg/l Exposure time: 73 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata): 0,44 mg/l Exposure time: 73 h Method: OECD Test Guideline 201
4,4'-methylenediphenyl diisocyanate	:	EC50 : > 1.640 mg/l Exposure time: 72 h NOEC : 1.640 mg/l Exposure time: 72 h

Toxicity to bacteria

4,4'-methylenediphenyl diisocyanate	:	EC50 : > 100 mg/l Exposure time: 3 h

Test Method: Respiration inhibition of activated sludge

Toxicity to fish (Chronic toxicity)

xylene	:	NOEC: > 1,3 mg/l Exposure time: 56 d Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

xylene	:	NOEC: 1,17 mg/l Exposure time: 7 d Species: Ceriodaphnia Dubia (water flea)
4,4'-methylenediphenyl diisocyanate	:	NOEC: >= 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Chronic aquatic toxicity

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	:	Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Biodegradability

xylene	:	Concentration: 41 mg/l Result: Readily biodegradable. Exposure time: 28 d Method: OECD Test Guideline 301F
4,4'-methylenediphenyl diisocyanate	:	Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation

xylene	:	Species: Oncorhynchus mykiss (rainbow trout) Exposure time: 56 d Concentration: 0,36 - 1,3 mg/l Bioconcentration factor (BCF): <= 25,9

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

13. Disposal considerations

13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
080501, waste isocyanates

Waste key (used product):
080501, waste isocyanates

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

14. Transport information

14.1 UN number

ADN
Not dangerous goods
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.2 Proper shipping name

ADN
Not dangerous goods
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.3 Transport hazard class(es)

ADN
Not dangerous goods
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.4 Packing group

ADN
Not dangerous goods
ADR
Not dangerous goods
RID
Not dangerous goods
IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC	:	Directive 1999/13/EC 3,46 %		
Directive (96/82/EC)	:	Update: 2003 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	Quantity 1 2.500 t	Quantity 2 25.000 t
Further information	:	Ensure a continuous supply of fresh air during and after operation. Persons who suffer from allergies or who have a chronic disposition to respiratory illness must not be required to work with this material. Reserved for industrial and professional use.		

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Other information

skin	Identifies the possibility of significant uptake through the skin

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version 3.2	Revision Date 11.12.2013 Date of last issue: 03.11.2013 Date of first issue: 25.01.2011	Print Date 13.12.2013	AE / EN

Prepared by : SAP Business Compliance Services GmbH
Birlenbacher Str. 19
D-57078 Siegen
Germany
Telephone: +49-(0)271-88072-0

Ref.: WIAG00001746

WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

TEST REPORTS



Certificate No.: 20172082864
Date: August 6, 2017

WÜRTH

Limited Warranty Certificate

To whom it may concern;

Subject: Confirmation of Warrantee on Würth Bond & Seal ART No. 0890 100X

We as Würth Gulf FZE and under our sole responsibility confirm a 10 year warranty on material specifications and against material defects including discoloring for our Bond & Seal PU Sealant, providing the material is applied in accordance to the instructions provided with the material.

This warrantee is restricted to replacement of defective material against the original invoice cost, Würth Gulf does not take responsibility for any defects caused by wrong application during installation or when material is applied on non-conforming substrates.

We trust to have been of service with this confirmation and remain,

With kindest regards,

WÜRTH P.O.Box: 17036 Jebel Ali Dubai - U.A.E. WURTH GULF FZE

Tamer ASSAF
Product Department
Wurth Gulf FZE

Wurth Gulf FZE-Plot # S61303, Jebel Ali South 6 ,Dubai ,U.A.E - P.O.Box:17036
T: +9714 8809991, 04 8834229(old), F: +971 4 8809255, 04 8834303(old), E: wurthglf@emirates.net.ae - www.wurth.ae

Certificate No.: 20172082861
Date: August 6, 2017

Declaration of Country of Origin

TO WHOM IT MAY CONCERN

We herewith declare under our sole responsibility that our item **Bond & Seal PU Sealant** with article no. **0890 100xx** is manufactured exclusively in our factories in Europe under supervision of our Würth Quality Control laboratories and the country of origin is Italy.

We trust to have been of service with this declaration and remain

With kindest regards,

Tamer ASSAF
Product Department
Würth Gulf FZE

WÜRTH P.O.Box: 17036 Jebel Ali Dubai - U.A.E. WURTH GULF FZE

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CETEC
Professional Scientific Solutions

OHS & Environmental Care
Sustainability
Advanced Laboratory/Analytical Services
Technology & Innovation

VOC Content Test Certificate

Tuesday, 14th November 2017

Supplier: Würth Australia Pty Ltd (U2, 1 Healey Rd, Dandenong South, VIC, 3175).

Sample Description: Würth Bond + Seal (Black colour)

Date Tested: November 2017 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC) in Various Materials as referenced by South Coast Air Quality Management District (SCAQMD) Rule 1168.

Test Data:

Specification **Green Building Council of Australia** **Green Star Design & As Built V1.1 13.1.1** **Green Star Interiors V1.1 12.1.1B**	**Würth Bond + Seal**
General purpose adhesives and sealants: 50 grams per Litre as VOC content per material Acoustic sealants, architectural sealant, waterproofing membranes and sealant: 250 grams per Litre as VOC content per material	**47 gram per Litre as VOC content per material**
We hereby certify Würth Bond + Seal (including 310 mL cartridges, 600ml sausage/bag, and 70ml tube in white, grey, sand and black colour) is below the VOC Content limits of the above stated categories specified by Green Building Council of Australia's Green Star Design & As Built and Green Star Interiors	

Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ
ACA, AIRAH, FMA
Managing Director and Principal Consultant

Tuan Duong
BE (Chem. Eng.)
Consultant

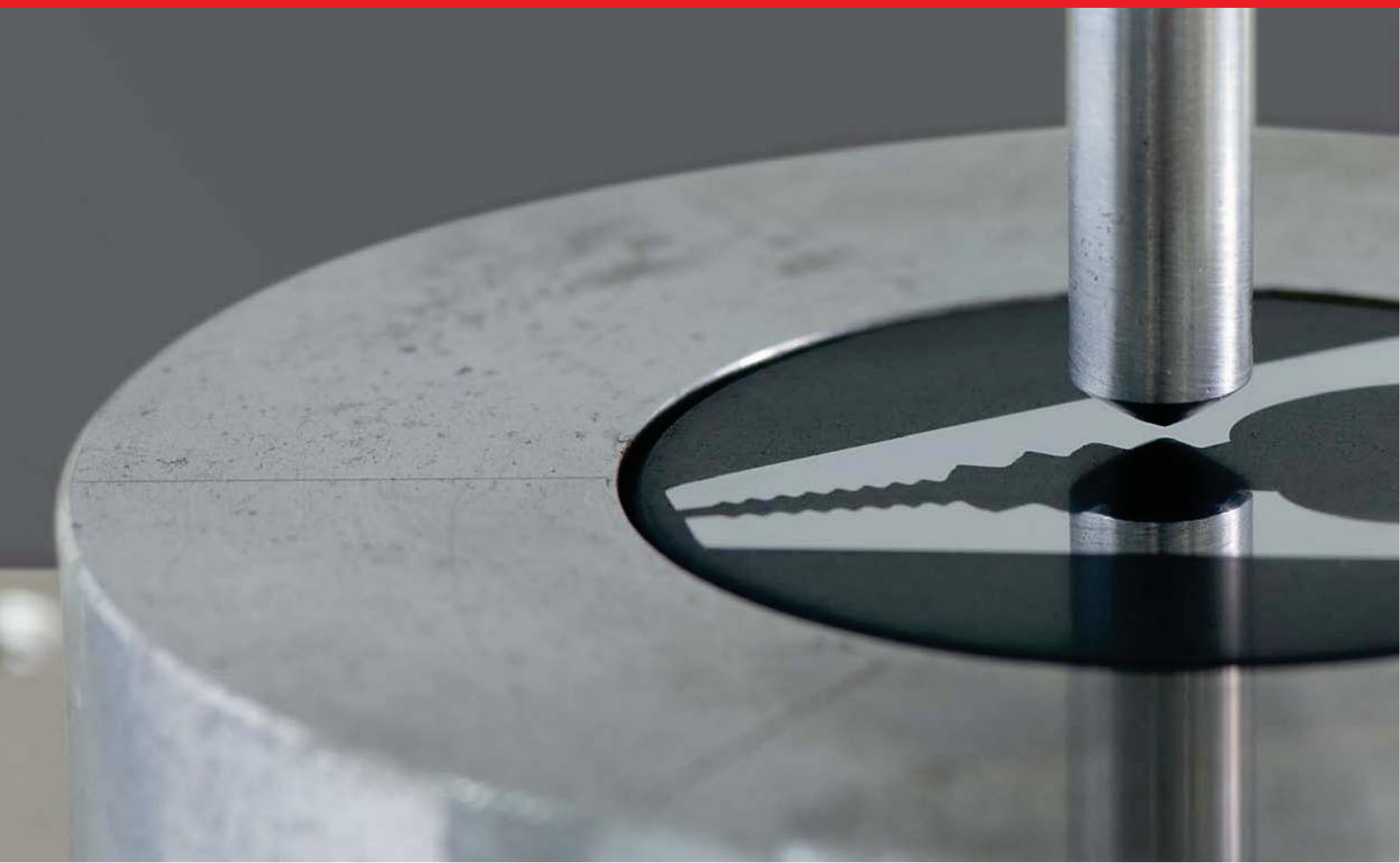
Nick Joy
BSc (Hons)
Consultant

CV171114

WÜRTH

WÜRTH IS QUALITY

Everywhere and every time



PREFACE

Ladies and Gentlemen, dear customers,

In practice, the quality of a product or service is measured by the degree to which customers' expectations are fulfilled.
Prof. Dr. h. c. mult. Reinhold Würth, Chairman of the Supervisory Board of the Würth Group's Family Trusts, goes one step further by setting this goal: "We have to inspire our customers in every way."

All our employees are well aware how important it is to reliably fulfill customers' wishes – your wishes and your orders – day in and day out.

This is why Würth's vision for quality is:

WÜRTH IS QUALITY
everywhere & every time

By providing quality products and services, we want to "take the load off your back", and we also want to give you the opportunity to increase your productivity and efficiency through innovative solutions.
This enables you to focus on your customers' needs, thereby increasing your success.

To assure you that the quality is there, we make no compromises, especially when it comes to selecting suppliers and when testing and approving Würth products. Würth strives for optimum quality in every market segment. Before we include products in our sales line, it is subjected to fatigue tests at our testing laboratory for days and sometimes even weeks under real-life conditions. In fact, most testing is carried out under tougher conditions that are seen in practice.

Würth operates a worldwide network of testing laboratories with first-rate equipment and a well-trained, motivated team of quality managers who act locally and globally to guarantee our quality standards.

Würth also works together with external testing laboratories where practicable to enable a third party to confirm the fulfillment of your specifications, national and international standards and Würth's own specifications.

Another focal point of our efforts in the area of quality management is the selection of the most suitable suppliers and their obligation to manufacture products in accordance with our quality standards.

The most environmentally friendly manufacturing of products and the use of appropriate materials are naturally of critical importance to us.

Of course we are also aware that the quality of the business processes of our company are crucial in determining your satisfaction. Our quality management systems are process oriented and the requirements are defined globally for Würth.

The central organ of the Würth Group in matters of quality is the Würth Quality Team (WQT). This team's job is to promote quality consciousness and quality, to point out improvement opportunities and necessities and to continuously support improvement processes. This work is supplemented within the Würth line at the so-called Quality Competence Center and, naturally, by a large number of teams at the individual companies.

In this brochure, we want to provide you with an overview of the instruments and people with whom we are working in the areas of
- Quality and environmental management (pages 3 – 5)
- Supplier qualification (page 6)
- Quality assurance (page 7)
- Testing laboratories in the Würth network (pages 8 – 19)

in order to fully live up to the "Würth is quality – Everywhere and every time" reputation.

Sincerely,



Dr.-Ing. Siegfried Beichter
Head Quality Management Würth Group

QUALITY MANAGEMENT WITH A SYSTEM

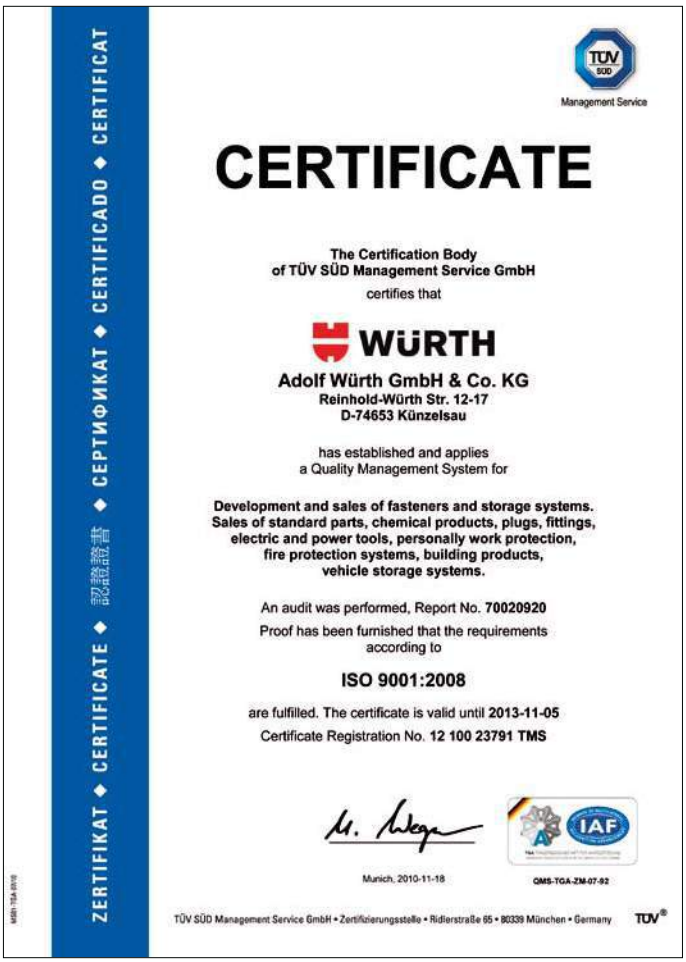
At the parent company of the Würth Group, Adolf Würth GmbH & Co. KG in Künzelsau, we have held an awareness for the demands, questions and problems of our customers as a focal point of our quality philosophy for a long time.

This is why, in 1993, we decided to have our quality-management system certified in accordance with DIN EN ISO 9001 by an external institution, the TÜV Süd certification agency. Using DIN EN ISO 14001, we are forming a process-oriented integrated management system which paves the way for continual improvement of our services.

Important elements of this system include determining customer satisfaction, evaluating effectiveness by the company management, continual improvement of the processes using internal audits, ensuring product quality through systematic and consistent testing, fair evaluation of suppliers, efficient complaint processing for monitoring of our products on the market and our own initiative for continual improvement of work routines to increase customer satisfaction.

The performance of this entire system is tested through monitoring audits carried out annually by TÜV Süd and re-certification audits by independent experts carried out every 3 years. At the last re-certification audit in November of 2010, we verified the conformity of our system with DIN EN ISO 9001:2008. This certification attests to our exceptional customer orientation and very keen quality consciousness.

Our distinct customer orientation was rewarded eventually with the German Customer Champion Award 2010.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

WÜRTH

Adolf Würth GmbH & Co. KG
Reinhold-Würth Str. 12-17
D-74653 Künzelsau

has established and applies
a Quality Management System for

Development and sales of fasteners and storage systems.
Sales of standard parts, chemical products, plugs, fittings,
electric and power tools, personally work protection,
fire protection systems, building products,
vehicle storage systems.

An audit was performed, Report No. 70020920
Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until 2013-11-05
Certificate Registration No. 12 100 23791 TMS

Munich, 2010-11-18

QMS-TGA-ZM-07-02

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany



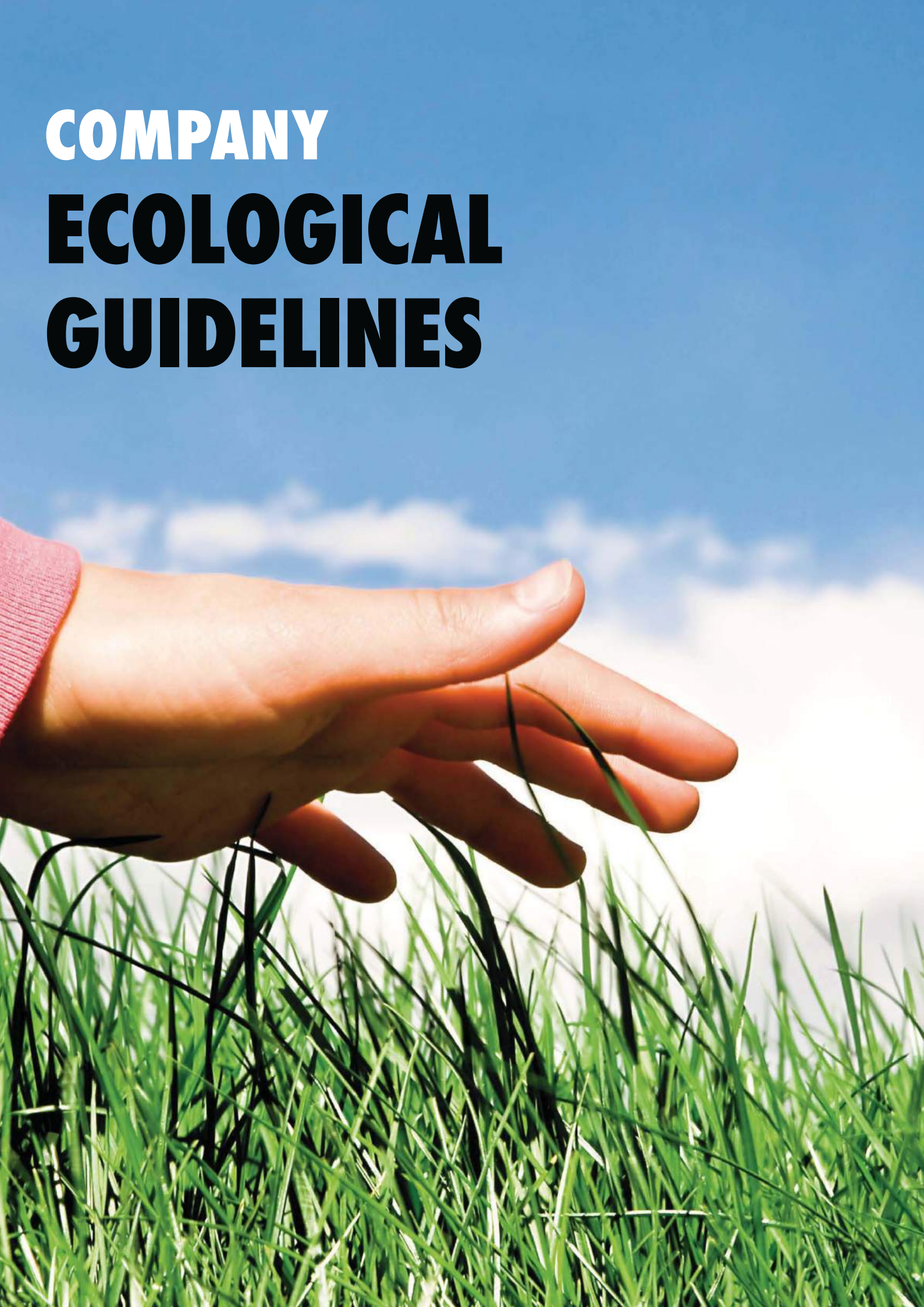


Dr.-Ing. Siegfried Beichter
Quality Management Würth Group

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siegfried.beichter@wuerth.com

COMPANY ECOLOGICAL GUIDELINES



Company ecological guidelines

Adolf Würth GmbH & Co. KG has integrated environmental protection into its company philosophy as a main pillar and has been certified in the area of environmental management in accordance with DIN EN ISO 14001 since 1996. The company philosophy includes a clear commitment to environmental protection which is expressed in the preamble as follows.

Adolf Würth GmbH & Co. KG strictly adheres to the law in all the states of Germany and is obligated to comply with the principles of the social market economy and the health of people and the environment. We also strive to continually improve our company's environmental protection practices.

Our commitment to environmental protection has yielded the following five company ecological guidelines:

- **Actively work to protect health and the environment in all areas** of our doing and to use this for standing out against competition.
- **Expansion of ecological Würth products and service strategies** with the goal of offering our customers the best health protection modern technology can offer.
- **Acceleration of the development of new ideas for the safety and health** of people and the environment.
- **Motivation of our employees to deal in an environmentally conscious way** at the workplace and privately through information and training.
- **When selecting our product ranges and suppliers,** we ensure that the manufacture, use and consumption of products cause as little harm to the environment as possible by using state-of-the-art technologies.

Environmentally responsible product portfolio

The ecologically minded product and service strategies of Adolf Würth GmbH & Co. KG (AW KG) benefit customers and protect the environment from additional pollution.

For its service to environmental protection, AW KG was recognized at the 1998 "Environment Award for Companies" ceremony in the state of Baden-Württemberg.

In 2009, AW KG received the environmental technology prize from the state of Baden-Württemberg in the "material efficiency" category for the VKP Trio Sealing Tape.

Ecological product lines and application solutions

- ECOLINE
- WÜRTH isi!! – Online hazardous material management
- REFILLO®MAT



Goals of environmental management

Protection of the environment has long been a constituent part of Adolf Würth GmbH & Co. KG and includes the following tasks:

- Specification and implementation of a location-based environmental policy, environmental program and environmental goals.
- Systematic and objective regular assessment of the performance of these instruments.
- Provision of information on internal environmental protection for the company, the public and especially for our customers.

Environmental challenges for the future

- Environmentally minded product range creation
- Minimization of environmental risks
- Waste avoidance
- Responsible handling of natural resources



Bianca Gilsdorf
Environment management

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Fax: +49 7940 15-4512
bianca.gilsdorf@wuerth.com

TECHNICAL
SUPPLIER QUALIFICATION

Würth seeks out the best suppliers in the world!

Würth's high demand for quality is placed at the very beginning of our supply chain with our global partners. In addition to process and product quality, the factors of delivery dependability, the environment and social aspects are "on the test rig". Trained auditors with highly comprehensive knowledge about the processes involved in creating new products and services test these products on site. Along with our quantitative and qualitative growth, supplier development activities are continuously being expanded and further developed according to the expectations of our customers.

To ensure an optimum audit process, we have at our disposal a host of customized tools for audits ranging from short half-day audits to supplier-development audits to comprehensive, multi-day audits. These tools are standardized methodically at the largest companies, which means that the results can be compared with and applied at other locations. We offer our knowledge at multi-day lectures and workshops at the Würth Academy.

The goals of supplier development are to ensure quality and environmental obligations, long-term cooperation with partners and reductions in nonconformity costs. What motivates us in supplier development are customers who enthusiastically use their product, purchased for the fairest price, and can rely on "their Würth".









Andreas Dierolf
Quality assurance
and supplier qualification

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Phone: +49 7940 15-2349
andreas.dierolf@wuerth.com

PERFORMANCE
OF QUALITY ASSURANCE

Quality beats price – quality assurance at Würth

To assure the customer that the quality is 100% there, we make no compromises when it comes to selecting suppliers and when testing and approving Würth products. Würth demands the best possible product quality in each respective market in order to meet all our customers' demands. They are the ones who decide whether or not a product is good.

Engineers, technicians and masters of their craft work on the following tasks for quality assurance:

- Initial sample testing
- Incoming goods inspection
- Complaint processing
- New product testing



Incoming products are subjected to an incoming goods inspection in accordance with the random sample plan. This is oriented toward DIN ISO 3269 and forms the basis for the scope of the random sample based on the delivery quantity.

The inspections are checked as per specifications of the standard and internal inspection instructions from independent professionals. All inspection equipment used is regularly calibrated.

New products are subjected to special requirement profiles by the quality assurance personnel. If the inspection yields positive results, approval is granted by quality assurance.

An important component of our success is the internal development of innovative products. Here, quality assurance works very closely with the product management and development departments and accompanies development projects through practice-oriented tests and determination of product requirements from the get-go.

The customer is an important part of our continual product-improvement process. All customer complaints are evaluated on a weekly basis. The quality assurance team responds immediately to increases in key figures so that solutions to possible problems can be developed early on.
Typical measures include inventory checks, supplier development, product optimization, 8D reports and the avoidance of usage errors through improved product information while taking the information gleaned from customers into account.



THE LARGEST TESTING LABORATORIES OF THE WÜRTH LINE



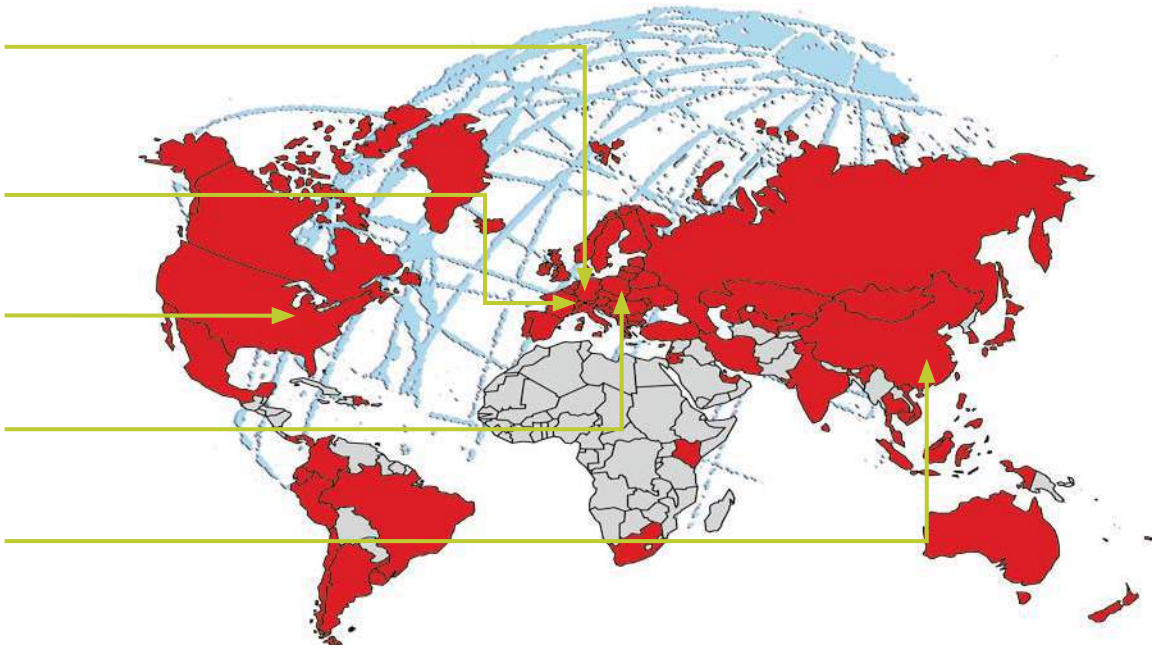
Germany
Künzelsau-Gaisbach,
Bad Mergentheim

Switzerland
Chur

US
Indianapolis

Slovakia
Bratislava

China
Shanghai



= Würth companies worldwide

ACCREDITED WÜRTH TESTING LABORATORY

The growing demands of the global market and our customers have led Adolf Würth GmbH & Co. KG to make the decision to establish an independent material-technical testing laboratory in accordance with the requirements of DIN EN ISO/IEC 17025.

Thanks to the professional competence in materials and anchor technology and the confidential handling of information and protection rights, the laboratory serves as a superordinate testing location within the Würth Group.

Altogether, six employees with over 70 years of combined professional experience and various professional backgrounds, e.g. master mechanics and metal industry tradesmen, structural engineers and chemical engineers, attend to your concerns. This ensures not only high testing quality, but also a professional interpretation of the measurement values.

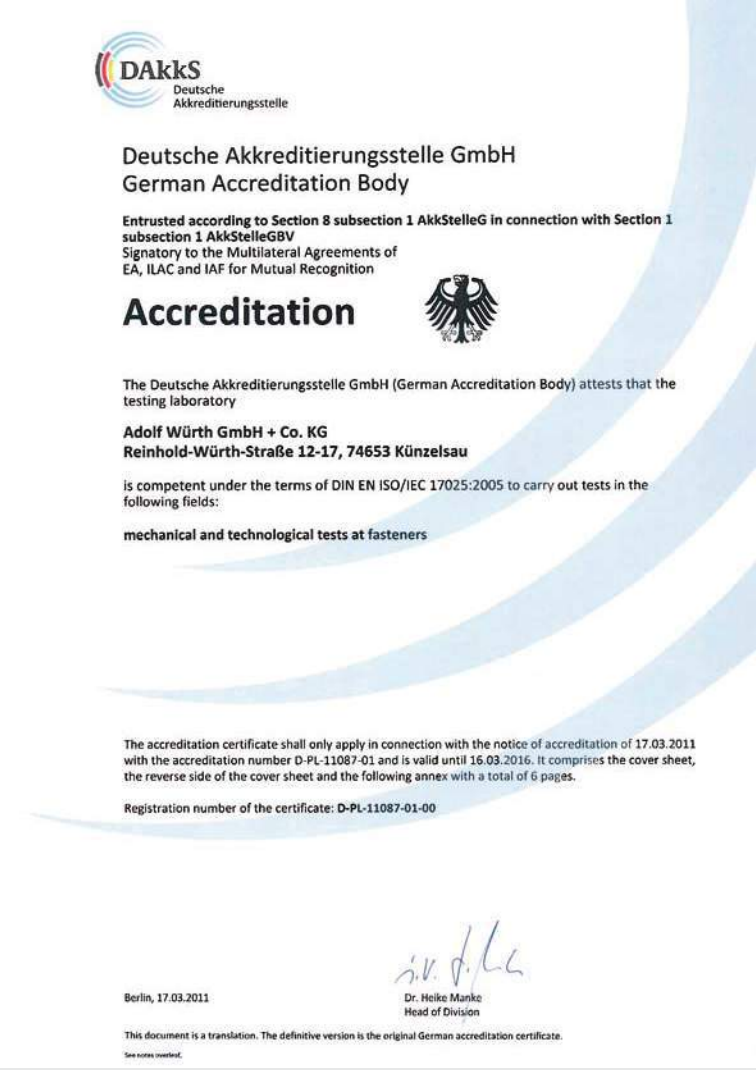
We offer our customers fast and competent processing of their orders. Since the Würth testing laboratory is located at the Künzelsau location, and is therefore close to the central warehouse of Adolf Würth GmbH & Co. KG, quick access to Würth products is possible. This enables us to respond quickly to possible special needs of your order.

Our accreditation certification with appendix can be found on our homepage or directly on the website of the DAkkS under laboratory number D-PL-11087-01-00.

For inquiries or more information on the Würth testing laboratory, we stand ready to assist you.

Jan Kobald
Würth testing laboratory




DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH
German Accreditation Body

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH (German Accreditation Body) attests that the testing laboratory

Adolf Würth GmbH + Co. KG
Reinhold-Würth-Straße 12-17, 74653 Künzelsau

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

mechanical and technological tests at fasteners

The accreditation certificate shall only apply in connection with the notice of accreditation of 17.03.2011 with the accreditation number D-PL-11087-01 and is valid until 16.03.2016. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 6 pages.

Registration number of the certificate: D-PL-11087-01-00

Berlin, 17.03.2011

Dr. Heike Manke
Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.



Hermann Müller
Würth testing laboratory

Adolf Würth GmbH & Co. KG
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74653 Künzelsau, Germany

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Fax: +49 7940 15-4121
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Jan Kobald
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ADOLF WÜRTH GMBH & CO. KG TEST LABORATORY
TESTING OPTIONS (EXCERPT)

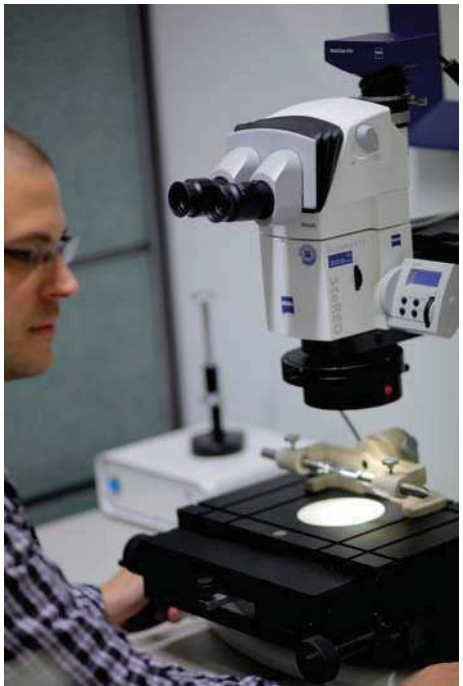


Tension testing machine
- Tensile test/compression test of components
- Strength testing of bolts and nuts





Screw-in test (right)
Internal development:
Measurement of the screw-in times of non-self-drilling and self-drilling screws





Vickers hardness tester (right)
Hardness test in accordance with DIN EN ISO 6507
- Determination of edge and core hardness
- Hardness progression curves

Measuring microscope (left)
Contact-less measurement of geometries







Robot test rig

a) Grinding
b) Cutting
c) Hammer drilling

a) Grinding test

- Grinding, flap and fiber disks
- Endurance test
- Material removal/ loss of material on disk
- Time/performance recording

b) Cutting disk test

- Cutting disks from 115 – 230 mm
- Number of seperating cuts/ loss of material on disk

c) Hammer drilling test

- SDS plus, SDS max
- Endurance test
- Drilling time, number of drill holes



Infrared spectroscope
Measuring of product specific spectra
(finger print)





Spark emission spectrometer (left)
Determination of steel composition

Weather simulation cabinet (right)
Accelerated outdoor weather simulation
in accordance with DIN EN ISO 4892-2



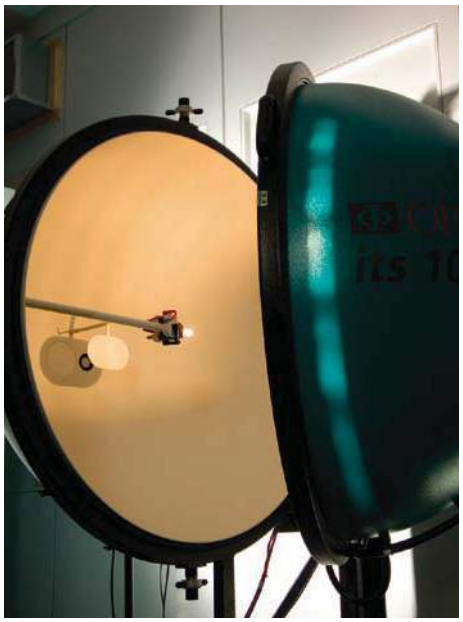
Salt-spray chamber

- Salt-spray test in accordance with DIN EN ISO 9227
- Condensate test in accordance with DIN EN ISO 6270-2
- A wide variety of environmental simulations



Dispensing unit (internal development)
System testing of products in cartridges or bags

- Thickenings
- Air inclusions
- Color mixing
- User viscosity





Lamp test rig (left)

- Testing of light lamps and automotive bulbs
- Geometry
- Service-life test
- Luminous flux measurement (lumens)
- Vibration test
- Measurement of the light spectrum and the color-reproduction value

Spectral photometer(right)
Measurement of the color of products such as silicones and paints in the CIELAB color space



X-ray fluorescence spectroscope

- Measurement of the thickness of surface coatings
- Determination of heavy metals in plastics/ metals
- RoHS screening process



Rheometer
Determination of viscosity, flow characteristics of liquids and pasty products



Machine test rig
- Magnetic powder eddy current brake for high torques and high speeds
- Service life testing of machine batteries
- Testing of machine characteristics

Not shown

Occupational safety
- Martindale abrasion test for gloves
- Cut protection test
- Penetration test

Fall testing
- Cardboard
- Shipping boxes
- Hand tools

Cardboard testing
- Box Cardboard Tester (BCT)
- Edge Crush Test (ECT)

Battery testing
- Types: micro (AAA), mignon (AA), baby, mono, 9-Volt block, button cells
- Discharge time and discharge cycles for various load cases, e.g. flash, camera
- Service-life test for rechargeable batteries

Precision measuring system
- 2D shadow measuring system
- Automatic measurement of screw dimensions

Plier testing
Cut test for sheet-metal shears and VDE pliers

Service life test for flashlights

... and lots more

SAMPLE OF SERVICES FROM ADOLF WÜRTH GMBH & CO. KG AT A GLANCE

Dear Customer,
We would be happy to perform testing at your behest. This list is intended to provide you with a small overview of the testing possibilities offered at our testing laboratory. Should you be interested in our offer, we would be happy to advise you. Please contact your sales rep or the contact partner of the accredited Würth testing laboratory.

Tensile test
- Tensile testing on whole and machined test pieces DIN EN ISO 898-1*
- Force test for nuts DIN EN 20898-2*
- Measurement of breaking strength and tear elongation of adhesive tapes DIN EN 14410
- Determination of the tensile shearing strength of high-strength overlapping adhesions DIN EN 1465
- Determination of adhesive strength of adhesive tapes DIN EN 1939
- Determination of tear strength, tensile strength, tear elongation and tension values of rubber/elastomere DIN 53504

Hardness testing
- Surface and core hardness, hardness profiles
- HRC/HRB Brinell
- HV 0.3/1/5/10 DIN EN ISO 6507*
- Decarbonization and carbonization test DIN EN 898-1*
- Edge decarbonization DIN EN 898-5*

Torque
Determination of torques up to 5,000 Nm

Coating thickness test
Measurement of metallic coverings using x-ray fluorescence process*

RoHS screening
Non-destructive testing using x-ray fluorescence process

Dimension testing
- Thread testing, length measurement, geometry*
- Measuring microscope*
- 2D shadow measuring unit

Material analysis
- OES spark emission analysis for high- and low-alloy steels*
- Infrared spectral analysis FT-IR

Environment simulation
- Accelerated outdoor weathering DIN EN 4892-2
- Environmental test DIN EN 60068-8-52
- Corrosion testing in artificial atmosphere – Salt-spray test DIN EN ISO 9227*
- Climate tests -40°C to 180°C at 10 – 98% rel. humidity
- High tempering up to 650°C

Surface testing
- Surface roughness
- Measurement of colors in CIELAB color space
- Visual assessment

Component test
Depending on the customer's requirements, we adjust to their specific equipment and determine the material properties required by architects or stress analysts, for example.

Residual field intensity
Measurement of the field strength e.g. of screws

Fall testing
Fall testing, e.g. of cases, packages DIN EN 22248

Cardboard testing
Measurement with box carton testers up to 30 kN DIN EN ISO 12048
Edge crush resistance 5 kN DIN EN ISO 3037

Battery testing
Capacity, discharging properties and charging properties, from button cells to monocells

Lamp testing
Measurement of the light spectrum and lumens of light bulbs, LEDs and energy-saving lamps

Protective equipment
- Martindale abrasion test
- Cut protection test
- Penetration test

*Testing possible at accredited testing laboratory (DIN EN ISO/IEC 17025)

WÜRTH INTERNATIONAL AG IN CHUR

Würth International AG developed during 50 years into a company with more than 400 employees. Today, central purchasing for the Würth Group is one of the most important mainstays of Würth International AG. In the mid-1990s, central purchasing branches were founded in America and Asia. This enabled Würth International AG to meet its customers' needs even better.

The logistics center in Landquart was brought to life almost at the same time. This facility makes it possible to supply customers quickly and reliably. Our subsidiary in Bratislava (Slovakia) also provides a weighing service for the entire Würth Group. The testing laboratories of Würth central purchasing are located in Switzerland (Landquart), Slovakia (Bratislava) and China (Shanghai).



TESTING LABORATORY IN LANDQUART (SWITZERLAND)

From the very beginning, professionally competent and reliable quality assurance was ensured for the inspection of incoming goods at the logistics center of Würth International AG in Landquart. In addition to the incoming goods inspection, the sampling of new products and complaint processing are some of the main tasks handled by the central purchasing quality assurance personnel.

With the construction of the new warehouse in 2002 and complete redesigning of the testing laboratory in 2011, the laboratory was outfitted with a modern and targeted infrastructure.

In addition to the classic mechanical tests, the testing laboratory also became specialized in the examination of chemical products. Some of the most important testing devices include a 20 kN tension testing machine, a measuring microscope which can record 3D models, various hardness testers (Rockwell, Vickers, Shore), a 2D measuring station, a box column drill for service-life and tool tests, simple breakage torque tests, an x-ray for material analysis of metals and coating measurements, a salt-spray chamber for corrosion-protection tests, an infrared spectrometer for testing chemical substances, a climate cabinet, a rheometer for viscosity measurement and other analytical testing possibilities for the determination of poisonous substances, such as PAKs and chrome 6.







Manuel Hallauer
Quality assurance

Würth International AG
Lagerhaus Landquart
Mühlestrasse 9
7302 LANDQUART, SWITZERLAND

Phone: +41 81 300 6142
Fax: +41 81 558 1775
manuel.hallauer@lagerhaus-landquart.ch

TESTING LABORATORY IN BRATISLAVA (SLOVAKIA)

Würth International Trading s.r.o. in Bratislava is the Würth Group's competent organization for DIN and standard parts.

In addition to trading activities, our colleagues in Bratislava handle a host of logistic services for the Würth Group companies.

Thanks to the use of state-of-the-art equipment and trained personnel, we are able to satisfy the demand for high quality by customers.
All requirements for initial samples and new product and standard testing are fulfilled at the laboratory in Bratislava.



Norbert Cillik
Quality assurance

Würth International Trading s.r.o.
P.O. Box 18
83107 BRATISLAVA 36
SLOVAKIA

Phone: +421 2 4921 1239
Fax: +41 81558 1955
norbert.cillik@wurth-int.com





TESTING LABORATORY IN SHANGHAI (CHINA)

Initial samples from Asian suppliers, in particular, are tested at the testing laboratory in Shanghai. Samples are taken from each delivery and tested to determine whether they meet our high quality standards.

The very well-trained personnel and the laboratory, which is equipped with all the important testing devices (e.g. a tension testing machine, a coating thickness measuring device, a torque test rig and other testing devices) ensures high quality, including that of imports from Asia. This ensures that only faultless products are shipped.



Steven Xu
Quality assurance

Würth International Trading
(Shanghai) Co. Ltd.
Capital of Leaders – Building 9
Zhangdong Road No. 1387
201203 SHANGHAI – P.R. CHINA

Phone: +86 21 5856 9056
Fax: +86 21 5856 9995
steven.xu@wurth-international.com.cn





WÜRTH INDUSTRIE SERVICE GMBH & CO. KG

Würth Industrie Service GmbH & Co. KG was founded on 1/1/99 as a spin-off of the industry division of Adolf Würth GmbH & Co. KG in Bad Mergentheim.

In the area of quality assurance, a well-equipped testing laboratory is available. Both the equipment and personnel of this laboratory are continually invested in. All the required geometric measurement possibilities required for our products, our own means for metallography and a broad spectrum of testing devices are available, for example:

- Hardness tests for metals and plastic
- Small-load hardness test
- Torque test rigs
- Pulling test rig for dimensions up to M80
- Tension testing machine
- X-ray fluorescence spectroscope
- Surface-roughness measuring device
- Measuring microscope
- 3D-coordinate measuring machine
- Contour measuring device
- Optical rotation measurement system
- Impact test bending facility





Optical coordinate measuring machine (3D): Optical 3-coordinate measurement, measurement precision down to 3 µm and serial measurement possible. Contact-less measurement system for determining diameters, radii, angles etc.

Friction coefficient testing machine/torsion testing machine





Initial sample testing

Before we begin the serial supply of our industrial customers, we generate corresponding initial sample test reports at our laboratories on request, for example in accordance with the VDA, PPAP or custom specifications.

Applicable deliveries to Würth Industrie Service GmbH & Co. KG are also ensured using the initial sample process in these cases, whereby our laboratories cross-check the initial sample test reports from suppliers accordingly and make decisions regarding approval.



Dr. Uwe Hasselmann
Technical department

Würth Industrie Service GmbH & Co. KG
Drillberg – Industriepark Würth
97980 Bad Mergentheim, Germany

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Fax: +49 7931 91-4273
uwe.hasselmann@wuerth-industrie.com



Part Submission Warrant 7831-00

Part Name: SECHSKANTSCHRAUBE MIT SCHAFT TP. — Cust. Part Numb
Shown on Drawing No.: 246340 — Würth Number
Engineering Change Level: 02-084
Additional Engineering Changes
Safety and/or Government Regulation: ☐ Yes ☑ No — Purchase Order No.
Checking Aid No. — Checking Aid Engineering Change Level

ORGANIZATION MANUFACTURING INFORMATION

Würth Industrie Service GmbH + Co.KG / — Supplier Name / Supplier Code
Drillberg — Street Address
Bad Mergentheim | 97980 | Germany — City | Postal Code | Country

CUSTOMER SUBMISSIO
☑ Dimensional ☑ Mate
Customer Name/Division
Buyer/Buyer Code
Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported? ☑ Yes ☐ No
Submitted by IMDS-ID-Nr.: 173512105 / 2
Are plastic parts identified with appropriate ISO marking codes? ☐ Yes ☑ No

REASON FOR SUBMISSION (Check at least one)

☐ Initial Submission
☐ Engineering Change(s)
☐ Tooling: Transfer, Replacement, Refurbishment, or additional
☐ Correction of Discrepancy
☐ Tooling Inactive > than 1 year
☐ Change to Optional Co
☑ Sub-Supplier or Materi
☐ Change in Part Proces
☐ Parts Produced at Add
☐ Other - please specify

Excerpt from an OEM PPAP form

WÜRTH SERVICE SUPPLY INC. (USA)

Würth Service Supply Inc. in Indianapolis offers industrial customers a broad product range, individualized support and comprehensive technical consultation by applications engineers.

At the quality assurance testing laboratory, a broad spectrum of dimensional testing possibilities and test devices are available for testing mechanical properties such as hardness, tensile and torsion strength, impact testing work and micro-hardness. In addition, a variety of functional tests are carried out in joint development and coordination with our customers.

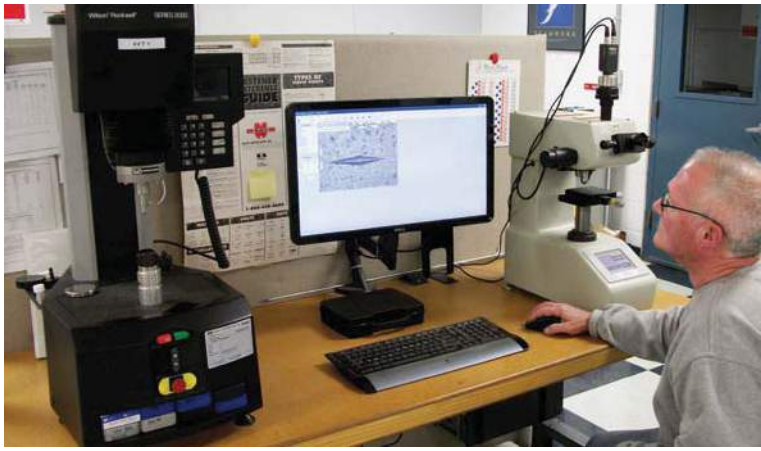


Stan Davis
Quality assurance

Würth Service Supply Inc.
4935 W. 86th Street
INDIANAPOLIS, IN 46268

Phone: +001 317-704-8603
Fax: +001 317-507-1936
sdavis@servicesupply.com





WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

ISO 14001:2004
ISO 9001:2008



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement and vehicle conversion or installation of storage systems including load securing in vehicles as well

including the sites see enclosure

has established and applies a Quality Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 9001:2015

are fulfilled.

The certificate is valid from **2024-04-10** until **2027-04-09**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

ENCLOSURE OF CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

certificate holder:

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau
Germany

at the sites	**scope**
Adolf Würth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany	Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.
Adolf Würth GmbH & Co. KG **Fahrzeugeinrichtungen** Am Seebach 2 74182 Obersulm-Willsbach Germany	Vehicle conversion or installation of storage systems including load securing in vehicles.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

Certificate Registration No.: **12 104 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement

has established and applies an Environmental Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 14001:2015

are fulfilled.

The certificate is valid from **2024-05-24** until **2027-05-23**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MLA DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

has established and applies
an Energy Management System for

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Installation of storage systems including load securing in automotive vehicles. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.

An audit was performed, Order No. **70020920**.

Proof has been furnished that the requirements
according to

ISO 50001:2018

are fulfilled.

The certificate is valid in conjunction
with the main certificate from **2022-10-04** until **2025-10-03**.

Certificate Registration No.: **12 340 23791/01 TMS**.

Head of Certification Body
Munich, 2022-10-05

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-01/2019

WÜRTH

WÜRTH GULF SUBMITTAL

BOND + SEAL 300 ML

APPROVALS



CTS DAR DC Final (WF-057136) 13-4800000206/061-IN-Construction… YESTERDAY
DAR AL-HANDASAH (SHAIR AND PARTNERS) - SAUDI ARABIA WORKFLOW TRANSMITTAL DAH-WTRAN-009597

13 Sindalah Island
Riyadh, KSA
Riyadh
Saudi Arabia

Dar Al-Handasah Consultants (Shair and Partenrs)

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Workflow Transmittal	DAH-WTRAN-009597	DAH-WTRAN-009597

Final (WF-057136) 13-4800000206/061-IN-Construction - IFR (RPT_ ARC,STR, CIV,)

From	Mr CTS DAR DC - Dar Al-Handasah (Shair and Partners) - Saudi Arabia
To (6)	Neom Pmc Region 13 - AECOM (+5 more...)
Cc (16)	Omar Basfar - AECOM (+15 more...)
Sent	Sunday, October 1, 2023 3:35:56 PM AST (GMT +03:00)
Status	N/A

DOCUMENT ATTACHMENTS (2)

(**0** selected)

File	Document No	Revision	Revision Date	Title	Status
	13-211002-4800000206-NAP-ARC-CRS-000118	03	9/25/23	4800000206/061 – Material Submittal for Adhesives: -Silicone Sealant - Wurth/Wurth Middle East-LINQ	B - Incorporate Comments - Proceed
	13-211002-4800000206-NAP-ARC-MAT-000062	03	9/25/23	4800000206/061 – Material Submittal for Adhesives: -Silicone Sealant - Wurth/Wurth Middle East-LINQ	B - Incorporate Comments - Proceed

MESSAGE

Workflow Review History

The attached documents have completed the "13-4800000206/061-IN-Construction - IFR (RPT_ ARC,STR, CIV,)" workflow with the following results :

This transmittal was automatically generated.

Doc No	Step	Participant	Review Outcome	Comments

Ministry Of Presidential Affairs Engineering & Technical Projects Dept.	وزارة شؤون الرئاسه قسم المشاريع الهندسية والفنيه

Material Submittal No. (MEC/MAT/PR34/0567) Rev.00

☑ Plumbing ☐ Mech. ☐ Elec. ☐ Civil ☐ Arch. ☐ ID ☐ Landscaping

Project Name	**: Sheikh Zayed Grand Mosque Center**
Client	**: Ministry of Presidential Affairs**
Consultant	**: Architectural Consulting Group**
Contractor	**: Masri Engineering & Contracting Establishment**

(RCC)

ACG INCOMING
REF.:
DATE: 19/08/17
COPY | ACT | INFO
PE
A
C
M.E
E.E
T&E
H.O
TIME: 11:00 AM

Material Details:

Item Description	Adhesive & Sealant for Exhaust & STL Louvers Installation
Specs. / BOQ / Drwg. / Reference	
Material Proposed	
Manufacturer / Local Supplier	WURTH / Italy
Reason for Alternative	-
Remarks	-

List of Enclosure
(Tick the Related Box)

- ☑ Vendor's Technical Literature
- ☐ Compliance Statement
- ☐ Previous Test Results
- ☐ Copy of the Related Specs
- ☐ Sampels
- ☐ Others (Specify):

Approved

Main Contractor Statement: We certify that the material submitted herewith has been reviewed in detials and in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Main Contractor's Signature: Engineer. 19/08/17 — *Date:* 19/08/2017

Consultant Received: — *Date:* 19/08/17

Consultant's Comments:

☐ Approved ☑ Approved As Noted ☐ Revise & Submit ☐ Not Approved ☐ Not Reviewed

Please refer to the comment Listed in the attached submittal review sheet #MEC/MAT/PR34/0567.

Signature: ..... *Date:* 24/08/2017

Client's Representative Received: — *Date:*

MEC-P34-SZGM
Date: 24/08/2017

POS.	ACT.	INF.
HO		
PM		
CM	✓	
EM		
Procurement		
PE		
Planning		
MEP CO		
Cost Control		
QA/QC		
HSE	✓	
QS		
Account		
Time Keeper		
Store Keeper		
Others		

Client's Representative Comments:

☐ No Objection, Proceed: ☐ Objection, Resubmit:

RECEIVED 24 AUG 2017 MEC - ABU DHABI PR - 34

RECEIVED 26 AUG 2017 Reliance Cont.Co. Sh. Zayed G. Mosque W.S.P.

Client's Representative Signature: — *Date:*

Consultant's Representative Signature: — *Date:*

Contractor's Representative Signature: — *Date:* RCC

Contractor remains fully responsible for approved material under the terms and conditions of the contract.
Materials rejected must be resubmitted for approval.

ACG
ARCHITECTURAL CONSULTING GROUP
دار الاستشارات المعمارية

Submittal Review Comments			
Project Name:	SZGM Visitor's Center & Plaza		
Date of Submittal:	19/08/2017	Reviewer	Amir
Contractor:	Masri Engineering & Contracting	Review Date	12/08/2017
Subcontractor/Vendor:	N/A		
Submittal Description:	**Adhesive & Sealant for Exhaust & STL Louvers Installation**		
Submittal No.:	MEC/MAT/PR34/0567 ☒New Submittal ☐Re-Submittal ☐Additional Information		
Specification Section (one section per transmittal):			
Submittal Type:	☐Shop Drawing ☐Administrative ☐As-Built ☐Sample ☒*Product Data* ☐*Additional Information* ☐*O&M*		

THIS SUBMITTAL HAS BEEN REVIEWED AND IS GIVEN THE REVIEW ACTION OF:

☐Approved ☒Approved as Noted ☐Revise & Resubmit ☐Rejected ☐Not Reviewed

Comments / Remarks:

1. Follow the manufacturer's written instructions & recommendation.

END OF SUBMITTAL REVIEW

24 AUG 2017

Notes:

- The above comments / or approval does not relieve the Contractor from his obligation in the contract to ensure conformance to the specification. Any deviations found subsequent to the approval are to be corrected by the contractor to the satisfaction of the Client / Consultant.
- The client reserves his right for any cost saving resulting from any deviation from the contract documents and as a result of the approval of the submittal and this right is valid until issuance of the preliminary handing over.

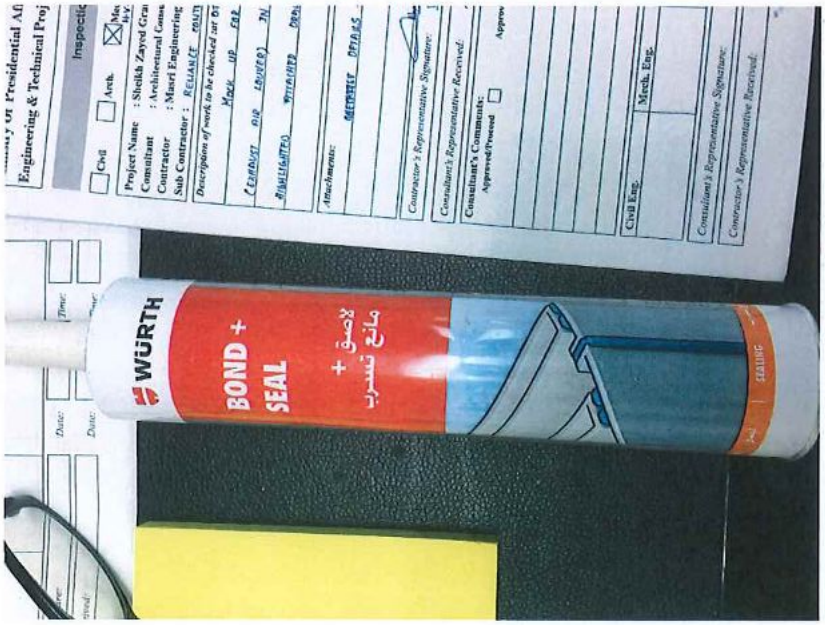
Project Manager:
Jean Claude

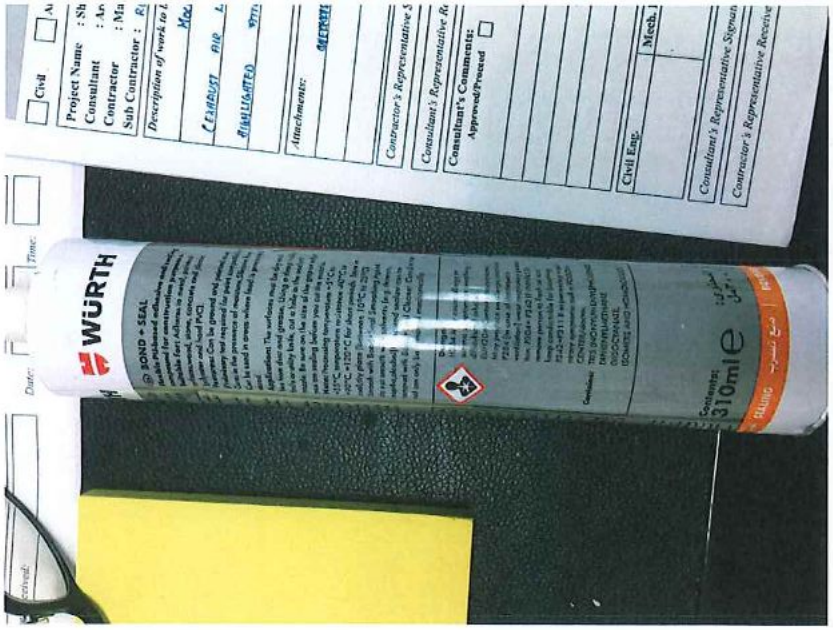
Signature: P.J.AM **Date:24 08 2017**

ARCHITECTURAL CONSULTING GROUP
دار الاستشارات المعمارية

MEC-MAT-PR34-0567-REV 00 **STATUS - B**

ADHESSIVE & SEALANT FOE EXHAUST STEEL LOUVER





Reviewer: Alfred

Client	Lead Consultant	Main Contractor	Sub - Contarctor
Ministry of the Presidency Affairs	ACG Architectural Consulting Group	MEC Masri Engineering & Contracting Establishment	RCC

Project : Sheikh Zayed Grand Mosque Center

MATERIAL SUBMITTAL

DOCUMENT CODE: RC-PMP-02	SERIAL NO.	REV.	DATE
	MEC-P34-RCC-MTS-MH-0062	0	15/8/2017

ISSUED BY: Reliance Cont. Co. - R.C.C **TO:** Masri Engineering & Contracting

MATERIAL AS PROPOSED BY CONTRACTOR		MATERIAL AS PROPOSED BY CONTRACTOR	
Description:	**Manufacturer/Origin**	**Description:**	**Manufacturer/Origin:**
Technical Data Sheet For Adhesive & Sealant Will Be Used For Exhaust & STL Louvres Installation	WURTH/Italy	Technical Data Sheet For Adhesive & Sealant Will Be Used For Exhaust & STL Louvres Installation	WURTH/Italy

Specifications Ref.: **BOQ Ref.:**

Attachments:

Sample	[√]	Technical data	[√]	Specs/BOQ copy	[ ]
Original Catalogues	[ ]	Compliance Statement	[ ]	Others	[ ]

Subcontractor/Supplier: **Address:**

CONTRACTOR'S SIGNATURE: Adel 19/8/20

RECIPIENT'S SIGNATURE: [✱]

SH. ZAYED G. MOSQUE V.C.P. Reliance Contracting Co.

The Engineer's comments:

Approved	☐
Approved As Noted	☐
Revise & Resubmit	☐
Rejected	☐

Engineer Representative **SIGNATURE:** **DATE:**

The Project Manager's comments:

RECEIVED 15 AUG 2017 MEC - ABU DHABI PR - 34

MEC-P34-SZGM Date: 15/08/2017

POS.	ACT.	INF.	
HO			
PM			
CM	✓		A/C
EM	✓		
Procurement			
PE	✓		A/C
Planning			
MEP CO	✓		
Cost Control			
SHEQ	✓		
HSE			
QS			
Account			
Time Keeper			
Store Keeper			
Others			

Approved	☐
Approved As Noted	☐
Revise & Resubmit	☐
Rejected	☐

Project Manager Representative **SIGNATURE:** **DATE:**

Check the Quality for expansion joint section & UV resistant & submitted to ACC

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TECHNICAL DATA SHEET

0890 100 1	**0890 100 11**	**0890 100 181**
0890 100 2	**0890 100 21**	**0890 100 182**
0890 100 3	**0890 100 31**	**0890 100 183**
0890 100 4	**0890 100 111**	
0890 100 5	**0890 100 112**	
0890 100 6	**0890 100 113**	

Bond + Seal
Elastic PU adhesive and sealant for a broad range of uses

Fields of application:
For a range of bonding and sealing tasks. Suitable for bonding and sealing in food processing plants.

Surface:
Excellent adhesive strength on a wide range of surface materials such as metal, painted surfaces, wood, Decorative board and chipboard, cork, stone, plasterboard, aerated concrete, concrete, glass, fibre glass, porcelain, ceramic, hard foams and plastic (polyester, PMMA and hard PVC). Please see the optimisation table.
Not suitable for PE, PP, PTFE, silicone rubber, polystyrene and softened plastics.

Properties:

- For universal use – Outstanding adhesive strength on a wide range of materials and surfaces
- Highly elastic
- Dampens vibrations and noise
- Long skin formation time
- Can be sanded and painted over
- Approved for use with foodstuffs (ISEGA certificate)
- Non-corrosive
- Low-odour
- Free from silicones

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TECHNICAL DATA SHEET

Surface pre-treatment:

The application surfaces must be clean, dry and free of grease. The processing temperature is between +5 °C and +35 °C.

Optimum adhesion results are guaranteed by pre-treating the surfaces with HaftClean activating surface cleaner (0890 100 60) and Primer for Metal (0890 100 61) or Primer for Plastic/Wood/Stone 0890 100 62).

For more information on preparing material surfaces, refer to the optimisation table below. Carry out preliminary tests where necessary!

Optimisation table

Surface/material	Optimisation steps	Notes
Aluminium (AlMg3, AlMgSi1)	Activating Cleaner and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
Anodised aluminium	Activating Cleaner and, if necessary, Primer for Metal	-
Steel (St 37 etc.)	Activating Cleaner and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary. Steel components at risk of corrosion: 2-component PU or epoxy corrosion protection required.
Stainless steel (rustproof)	AdhesionPlus primer and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
Galvanised steel (hot-dip or electrically galvanised)	AdhesionPlus primer and, if necessary, Primer for Metal	First, lightly sand with an abrasive fleece if necessary.
2-component top-coat paints (PU, epoxy), 2-component water-based primers and paints, cataphoretic paints, primers (EP/2C)	Activating Cleaner	Due to the large number of paints available, this information is only a guide. Please perform preliminary tests where necessary.
Powder coatings	Activating Cleaner	Preliminary testing is recommended for applications involving significant forces or a damp environment.

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A minimum adhesive layer thickness of 3 mm is recommended to harness the benefits of thick-coat bonding.

Technical data:

Chemical basis	1-component polyurethane
Curing through	Atmospheric moisture
Colour	White, grey, black, dark brown, light brown, sand beige
Processing temperature	+5°C to +35°C
Skin formation time*	Approx. 45–60 min.
Curing speed	Approx. 4 mm/24 h
Density*	Approx. 1.25 g/cm³
Change in volume (52451)	Approx. -5%
Viscosity	Paste-like
Shore A hardness (DIN 53505)	Approx. 40
Tensile strength (DIN 53504 S2)	1.8 N/mm²
Elongation at tear (DIN 53504 S2)	Approx. 500%
Resistance to further tearing (DIN 53515)	Approx. 7 N/mm
Stretching/contraction during use	Approx. 15%
Spec. resistivity (DIN 53482)	Approx. 10^{10} Ω/cm
Glass transition temperature (DIN 53445)	Approx. -45°C
Temperature resistance	-40°C to +90°C, up to 8 h at +120°C
Resistant to	Water, seawater and lime water, diluted inorganic acids and alkaline solutions
Short-term resistance to	Fuels, mineral oils, vegetable and animal fats and oils
Not resistant to	Organic acids, alcohol, stronger mineral acids and alkaline solutions, solvents
Shelf life	12 months (+10°C to +25°C) in sealed in original container

*Measured at 23°C/50% relative humidity

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Remarks:

- Not suitable for glass groove sealing in areas in which UV back reflection can occur. Direct exposure to sunlight can result in slight surface yellowing.
- Not suitable for expansion joints in construction applications.
- Following skin formation, can be mechanically machined and painted over without surface activation.
- Do not allow this product to come into contact with alkyd-resin paint systems.
- Avoid adhesive strengths of more than 5 mm.

This advice is based on our own research and experience. It is presented in good faith and may be considered reliable. However, due to the diverse processing, application and handling possibilities the information provided may not be considered legally binding. The same applies to the information provided by our technical and commercial customer service.

We recommend the users of our products to perform their own tests in order to determine whether our products are appropriate for the respective use and environment. We guarantee the consistent quality of our products. We reserve the right to implement technical changes and improvements.

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GFRP (unsaturated polyester), gelcoat side or SMC	Activating Cleaner	First, lightly sand with an abrasive fleece if necessary.
GFRP (unsaturated polyester), layup side	1. Lightly sand with S 80 2. Activating Cleaner 3. Primer for P/W/S	-
ABS	1. Lightly sand with sanding fleece 2. Activating Cleaner 3. Primer for P/W/S	The sanding process can be omitted for parts subjected to little load.
Hard PVC	1. Lightly sand with sanding fleece 2. Activating Cleaner 3. Primer for P/W/S	The sanding process can be omitted for parts subjected to little load.
Glass (mineral)	Activating Cleaner	Adhesive surface must be protected against UV radiation (opaque cover).
Glass ceramics	Activating Cleaner	-
Untreated wood and wood products (particle board)	1. Dedusting 2. Primer for P/W/S	-
Concrete, mineral mortar and plasters	1. Dedusting 2. Primer for P/W/S	-
Textiles, fleeces	Primer for P/W/S	Preliminary testing required; the holding of the adhesive in the fabric may be sufficient.

Application:

Cut the nozzle tip to create the required bead geometry. The adhesive must be applied using a manual, battery-powered or piston-rod-style compressed-air gun to ensure a reliable finish. Apply the adhesive in the form of a triangle of beads to ensure an even layer thickness. Material that has not cured can be removed using Remover (0890 100 63).

Following skin formation, can be mechanically machined and painted over without surface activation.

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DUBAI WORLD TRADE CENTRE

中建中東有限責任公司
CHINA STATE CONSTRUCTION ENGRG. CORP. (MIDDLE EAST)(L.L.C)

KEO

SITE TRANSMITTAL of Shop Drawings, Materials, etc.

TRANSMITTAL NO : CSC/EV-P7/TS/00117

REV : 01

To: KEO International Consultants

PROJECT	DIV/PACKAGE	OWNER	CONTRACTOR
EXPO VILLAGE	CP07	DWTC	CSCEC

WE ARE SENDING HEREWITH THE DRAWINGS / DOCUMENTS / SAMPLES LISTED BELOW FOR YOUR REVIEW.

ITEM NO.	REF. No.	GENERAL DESCRIPTION AND REVISION DETAILS	TYPE (i)	COPIES	ACTION CODE (ii)
1	PN1502-CP07-PQ-ST-CSC-00117	Prequalification for M/S Wurth Gulf for Manufacture and Supply of Joint Sealant	OT	1	B

We certify that the items submitted herewith have been reviewed in detail and are in strict conformance with the Contract Drawings and Specifications except as otherwise stated.

CONTRACTOR :

DATE: 18-Jun-18

RECEIVED BY KEO :

DATE:

KEO'S REMARKS :

No objection subject to comply with project specifications, DM requirements, and Manufacturer recommendations.

Corrections or comments made relative to submittals during this review does not relieve the contractor from compliance with the requirements of his Contract, drawings and specifications. This review is only in respect of general conformance with the design intent of the project and general compliance with the information given in the Contract documents. The contractor remains responsible, among other things, for the design of the project or such parts of the project he has design responsibility for (if design forms part of the Contract), for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner, all in accordance with the Contract.

KEO CM / RE

DATE:

RECEIVED BY CONTRACTOR :

DATE:

(i) TYPE:
- SD: Shop Drawings
- SM: Sample
- GT: Guarantee
- MD: Manufacturer's Data
- CT: Certificates
- OT: Others

(ii) ACTION CODE:
- A: No objection
- B: No objection subject to incorporation of all comments as noted
- C: Rejected, to be resubmitted

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Please feel free to contact us using the details below - we would be more than happy to visit and demonstrate our way of working, products we supply and service we provide.

Your friendly **Würth Gulf Sales Consultant** will visit when required by you, the customer at your convenience.

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