

Flex 310 M® 不锈钢专用胶



使用范围广

WEICON Flex 310 M® 不锈钢专用密封胶无腐蚀性、强度高、湿润时可涂漆、固化后可研磨，同时还具有突出的耐老化性和良好的抗紫外线能力。它能够抵抗淡水和咸水，不含硅、异氰酸酯、卤素或溶剂。

WEICON Flex 310 M® 不锈钢专用胶通过欧洲食品级认证 (ISEGA)，能够用于食品行业。

WEICON Flex 310 M® 不锈钢专用胶是一款以MS聚合物为基础的弹性密封胶，适用于粘接和密封各种金属（如不锈钢、铝和有色金属）。

WEICON Flex 310 M® 不锈钢专用胶能够用于金属制造、容器与仪器制造、食品工业、厨房及卫生领域、通风和空调系统以及其他不允许使用硅胶或含硅产品的工况。



技术参数

基础成分	单组份MS聚合物
密度	1,08 g/cm³
粘度	膏状
垂流 (依据 ASTM D 2202)	< 1 mm
操作温度	+5 至 +30 °C
固化方式	湿气固化
固化条件	+5至+40°C温度环境及30%至95%相对湿度
表干时间*	15 分钟
固化速度 (首24个小时)	3 mm
体积变化(依据 DIN 52451)	-1 %
最大粘接缝隙	5 mm
最大缝隙宽度	25 mm
保存期限 (+5°C 至 +25°C)	12 个月

提示

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邵氏硬度 A (依据 DIN 53505 / ASTM D 2240) ± 5	45
断裂伸长率(依据 DIN 53504/ASTM D412)	280 %
粘合剂抗拉强度	3,1 N/mm²
平均拉伸剪切强度(依据 DIN EN 1465/ASTM D 1002)	2,5 N/mm²
断裂抗性(依据 DIN 53515/ASTM D 1002)	11 N/mm²
形变极限	20 %
可燃性等级 (DIN 4102)	B 2
耐温性	-40 至 +90 短时可达+120 °C
ISSA 编码	75.634.33
IMPA 编码	81 52 74

*50%空气湿度和+23°C环境温度下的测试结果

表面预处理

待粘接的物体表面需清洁、无油脂。大多数污垢（如油、脂、粉尘、污渍等）都能用WEICON表面清洁剂除去。针对严重污染的金属表面，我们推荐使用WEICON清洁剂S；针对老化的油漆或胶水残留物，我们建议使用WEICON密封胶去除剂。多数材料都能够很好地进行同材及异材粘接。针对少数特殊材料或极端工况，我们建议在涂胶之前先使用底漆进行预处理。详细说明请参见底漆选型表。使用机械方式对待粘接的表面进行预处理（如研磨或喷砂），能够大大提升粘接效果。

操作

使用方法

适用于310 ml胶瓶的手动胶枪，气动胶枪（我们建议使用带活塞连杆的胶枪），自动点胶系统

将待粘接部件进行粘合

为了达到最佳的浸润效果，涂胶后的待粘接部件需在胶水表面形成干膜前（表干时间）进行粘合操作。

储藏

在未开封且存放于正常环境（23°C，50%相对湿度）的情况下，WEICON单组份弹性密封胶的保质期为12个月。

安全与健康

使用WEICON产品时，需注意产品的物理性、安全性、毒性、生态性的详细参数以及我们EG材料安全数据表（www.weicon.com）的具体信息。

包装

13656310-47 Flex 310 M® 不锈钢专用胶 310 ml

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技术参数表

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产品配件

13250000	胶瓶切刀, 310 ml
13250001	压力胶枪,
13250002	压力胶枪特殊款,
13250009	空压胶枪,
13955031	V型喷嘴,

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Flex 310 M® Stainless Steel



suitable for universal use

WEICON Flex 310 M Stainless-Steel adhesive and sealant is non-corrosive, strong, overpaintable (wet in wet), sandable, resistant to aging and UV rays and is free of silicone, isocyanate, halogens or solvents.

WEICON Flex 310 M Stainless-Steel has an ISEGA certificate and can be used as an adhesive in food technology.

Flex 310 M Stainless-Steel can also be used in all application fields where the colour of the adhesive and sealant must match the surface material (e. g. stainless steel, aluminium, etc.).

WEICON Flex 310 M Stainless-Steel can be used in metal construction, tank and apparatus engineering, food industry, in kitchen and sanitary installations, ventilation and air conditioning systems, and in all applications where silicones or products containing silicones are not suitable.



Technical Data

Base	1 C.-MS Polymer
density	1,08 g/cm³
Viscosity adhesive	pasty
Stability/Run-off (ASTM D 222)	< 1 mm
Processing temperature	+5 to +30 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	15 min.
Curing speed (first 24h)	3 mm
Volume change (DIN 52451)	-1 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	45
Elongation at break (DIN 53504/ASTM D 2240) ± 5	280 %
Tensile strength of pure adhesive and sealant	3,1 N/mm²
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	2,5 N/mm²
Tear strength (DIN 53515/ASTM D 1002)	11 N/mm²
Movement capacity max.	20 %
Building material category (DIN 412)	B 2
Temperature resistance	-40 to +90 (briefly up to +120) °C
ISSA-Code	75.634.33
IMPA-Code	81 52 74

*Measured at 50% relative air humidity and +23°C

Surface pre-treatment

The surfaces must be clean and free of grease. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues. Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the primer selection table. A mechanical surface pre-treatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Processing

Application methods

Professional cartridge gun for 310 ml cartridges, compressed air gun (we recommend a variation with piston rod), automatic dosing systems.

Joining the parts to be bonded

To ensure optimal wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-overtime).

Storage

When unopened and stored at room temperature (+23°C and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 12 months.

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Safety and health

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes:

13656310 Flex 310 M® Stainless Steel 310 ml

Accessories:

13250000 Cartridge Cutter, 310 ml
 13250001 Cartridge Gun,
 13250002 Cartridge Gun Special,
 13250009 Compressed Air Cartridge Gun,
 13955031 V-Joint Nozzle,

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