

HT 300



耐高温

WEICON HT 300 耐高温硅树脂可耐高温达+300°C，不含化学溶剂，强度高，乙酸酯交联。该产品耐风化，耐老化，耐化学物质，弹性出色（断裂伸长率约300%）。

HT 300 耐高温硅树脂尤其适用于需承受高温环境的粘接与密封。它能够很好地粘接钢材、铝材、陶瓷等多种材质。

HT 300 耐高温硅树脂可用于工业熔炉、烟气系统、供暖装置、排气管道、加热箱等诸多领域。

技术参数

基础成分	单组份矽氧树脂 (乙酸盐)
密度	1,18 g/cm ³
粘度	膏状
垂流 (依据 ASTM D 2202)	1 mm
操作温度	+5 至 +35 °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%相对空气湿度
表干时间*	8 分钟
固化速度 (首24个小时)	2 -3 mm
体积变化(依据 DIN 52451)	< -6 %
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
邵氏硬度 A (依据 DIN 53505 / ASTM D 2240) ± 5	30
断裂伸长率, 依据ISO 37, S3A	300 %
拉伸强度, 依据ISO 37, S3A	2,5 N/mm ²
拉伸至100%时的拉伸强度, 依据 ISO 37, S3A	0,9 N/mm ²
形变极限	15 %
是否可涂漆 (湿涂)	没有

提示

本资料中列出的所有产品，其参数和建议是在实验室的测试结果及经验总结，不得被视为对产品特性的保证。由于每一个用的实际应用情况并不在我们的认知、控制及责任范围内，我们对这些信息并不承担任何义务。我们保证我们的产品符合并遵守我们销售条款中承诺的高品质、无污染的要求。我们建议用户通过自行试验来论证其希望选用的产品是否完全符合预期。因用户未遵照指定的操作方法使用产品而造成损失的情况，用户将独自承担全部责任。

可燃性等级 (DIN 4102)	B 2
耐高温	-40至+280, 短时 (约2小时) 可达+300 °C
ISSA 编码	75.634.20/21
IMPA 编码	815282/83

*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

胶瓶包装的操作

针对310 ml胶瓶，可使用手动胶枪，也可使用空压式胶枪（我们推荐WEICON空压式胶枪），亦或是使用自动点胶机。

管状包装的操作

手动挤压瓶身，使用后即刻将瓶口密封。胶水开封后需尽快使用完毕。

粘接

为确保最佳的粘接效果，需在涂上胶水的材料表面形成第一层薄膜之前，将粘接部件进行接合。

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

13050085	HT 300 85 ml 红色
13050310-47	HT 300 310 ml 红色

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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Silicone HT 300



high temperature resistant

WEICON HT 300 adhesive and sealant is red, high-temperature resistant (+300°C/+572°F), free of solvents, strong, and has acetatecross-linking properties. It is resistant to weathering, ageing and chemicals and is extremely elastic (breaking elongation of approx. 300%).

HT 300 is particularly suitable for heat-exposed bonds and seals and adheres very well to steel, aluminium, glass, ceramics and many additional materials.

HT 300 can be used in industrial furnaces, flue gas systems, heating installations, exhaust gas routing, heating cabinets and in many additional areas.

Technical Data

Base	1 C.-Polysiloxane (Acetate)
density	1,18 g/cm ³
Viscosity adhesive	pasty
Stability/Run-off (ASTM D 222)	1 mm
Processing temperature	+5 to +35 °C
Cure type	by humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	8 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	< -6 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	30
Elongation at break acc. to ISO 37, S3A	300 %
Tensile strength acc. to ISO 37, S3A	2,5 N/mm ²

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.

Tension strength value at 100 % (ISO 37, S3A)	0,9 N/mm ²
Movement capacity max.	15 %
Overpaintable (liquid paint)	No
Building material category (DIN 412)	B 2
Temperature resistance	-40 to +280 briefly (approx. 2 h) to +300 °C
ISSA-Code	75.634.20/21
IMPA-Code	815282/83

*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

Processing cartridge

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

Processing tube

Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible.

Joining the parts to be bonded

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

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.

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:

13050085 Silicone HT 300 85 ml red
13050310 Silicone HT 300 310 ml red

Accessories:

13250000 Cartridge Cutter, 310 ml

Technical Datasheet

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13250001	Cartridge Gun,
13250002	Cartridge Gun Special,
13250009	Compressed Air Cartridge Gun,
13955031	V-Joint Nozzle,

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