WEICONLOCK®
Anaerobic Adhesives and Sealants

WEICONLOCK® AN 305-15

high strength | highly viscous | difficult to disassemble

WEICONLOCK® AN 305-15 is a high-strength chemical flange sealant. It is highly viscous, difficult to disassemble and used for sealing flanges.

The form-in-place gasket is especially suitable for rigid flanges: pumps, thermostats, compressors, gearbox housings or axle covers. The impact-resistant flange sealant is vibration-resistant and provides immediate low-pressure sealing after assembly.

WEICONLOCK flange sealants are alternatives to conventional solid gaskets. Their sealing film creates a fully sealed joint and consequently prevents fretting corrosion. A range of different strengths is available, allowing bonded parts to be disassembled easily when required.

Technical Data

Base		anaerobic methacrylate
Colour		purple
Fluorescent		yes
Viscosity	25 °C Cone / Plate	800.000 mPa·s
Gap bridging up to max.		0,5 mm
Breakaway torque		18 - 20 Nm
Prevail torque		12 - 16 Nm
Shear strength Nmm² (DIN 54452)		8 - 13 N/mm²
Handling strength		10 - 20 min.
Final strength	(100 % strength)	6 - 12 h
Temperature resistance		-55 °C to +180 °C
Compressive strength (free cutting steel / grub screw = 8.8)		
M 3x6	max.	1500 bar
M 4x6	max.	1500 bar
M 5x8	max.	1500 bar
M 6x10	max.	1500 bar
M 8x12	max.	900 bar
M 10x16	max.	400 bar

Surface pretreatment

Clean surfaces to be sealed.

Application

WEICONLOCK is applied evenly directly from the pen/ cartridge. Avoid direct contact between the dispensing tip and metal. Apply a continuous bead to one side of the flange, then assemble and tighten the parts quickly. Do not pour WEICONLOCK that has already come into contact with metal back into the bottle. Even the smallest metal particles will cause curing inside the bottle. The use of dispensing equipment is therefore recommended for series production.

Curing

Anaerobic adhesives and sealants remain liquid as long as they have no contact with metal and are exposed to oxygen from the air. The hardener component in the liquid adhesive remains inactive while exposed to oxygen. Only once the parts have been joined, such as when an adhesive-coated screw is inserted into a threaded hole, can oxygen no longer come into contact with the adhesive. This allows it to cure. Anaerobic adhesives and sealants are generally classified into low-, medium- and high-strength products.

Storage

Store WEICONLOCK in the unopened original container at room temperature. Avoid sources of heat and direct sunlight. The air inside the packaging helps maintain storage stability.

Instructions for use

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

Accessories

10021433 Activator F, 200 ml, green
10001256 Dosing Tip L Size 1, 1 PCE

Available sizes

Conversion table

(°C x 1.8) + 32 = °F
mm/25.4 = inch
µm/25.4 = mil
N x 0.225 = lb
N/mm² x 145 = psi
MPa x 145 = psi

Nm x 8.851 = lb·in
Nm x 0.738 = lb·ft
Nm x 141.62 = oz·in
mPa·s = cP
N/cm x 0.571 = lb/in
kV/mm x 25.4 = V/mil

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.

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