

HYDRAULIC THREAD SEALANT FOR METAL FITTINGS – 301283

TECHNICAL DATA SHEET

Product Description

301283 is a single component medium strength, anaerobic pipe sealant. 301283 cures when confined in the absence of air between close-fitting metal surfaces.

Applications

301283 is formulated to lock and seal fine to medium pipe threads, particularly for hydraulic and pneumatic pipe systems, up to 15mm pipe diameter. 301283 prevents vibration loosening and leakage through the pipe threads. 301283 is formulated to give medium strength break and prevail torque on assembled joints, thus enabling easier disassembly and servicing. Pipe joints made with 301283 should be fully torqued up within a maximum of 10 minutes from initial assembly. 301283 will give a rapid low pressure seal (after 20 mins).

Physical Properties

Chemical Type	Dimethacrylate
Appearance	Brown
Specific Gravity	1.05
Viscosity (cps)	Range 400 – 600 (Typical value – 500)

Performance Characteristics

Maximum Gap Fill	0.20 mm
Fixture Time (ISO10964)	=< 30 minutes
Full Cure	24 hours
Strength Build up	15 mins = Finger tight 1 hour = ~50% strength 24 hours = 100% strength
Breakaway Torque (N.m)	Range 8-18 (Typical value – 13)
Prevail Torque (N.m)	Range 7-14 (Typical value – 10)
Heat Resistance	Suitable for use at temperatures up to 150°C. When tested at 130°C the bond strength will be approximately 30% of the full strength at 21°C.
Operating Temperature Range	-50 to +150 °C

Additional Product Information

Anaerobic adhesives only cure in the absence of air and with metal part activation. Adhesive outside the joint will remain uncured and may be wiped away with a cloth. 301283 is suitable for most pipe threads of fine to medium pitch, up to a pipe diameter of 15mm. 301283 will not cure outside the joint and is virtually non-fouling in most types of hydraulic systems. 301283 is not recommended on certain plastics as stress cracking can sometimes result. Some anti-corrosion chemicals inhibit the cure system in this type of anaerobic. Trials are recommended to establish whether cleaning of the parts is necessary. A suitable activator may be required on plated parts.

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Application Techniques

Apply adhesives to all engaged threads. Assemble parts and allow to cure. Wipe excess adhesive from outside of joint.
Product is normally hand applied from the bottle. Dispensing systems are available to high volume assembly applications.

Storage Conditions

Keep the adhesive in a cool, dry place away from direct sunlight. Under such conditions shelf life at room temperature will be 12 months.
Refrigeration to 5°C gives optimum storage stability.

Shelf Life

12 months from date of despatch when stored in the original carton at 21°C.

Precautionary Information

Refer to product label and material Safety Data Sheet for health and safety information before using the product.

Note: The information contained within this data sheet is believed to be reliable. Cedesaltd. makes no representation or warranties of any kind concerning this data. Cedesaltd. assumes no responsibility nor liability for results obtained by end-user where Cedesaltd. has no control over the variables of surface preparation, application technique, curing, or storage. End-users are solely responsible for making their own tests and evaluation of this product prior to use in their manufacturing process to determine if this product is suitable for this application. Use the information in this data sheet as a guide only.

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