

Cyberbond

Titan 7271 TECHNICAL DATA SHEET

The Power of Adhesive Information
cb
 Cyberbond™

Titan 7271 is a single component anaerobic threadlocking adhesive develops high strength. Titan 7271 prevents loosening and leaking of threaded fasteners. It is suitable for heavy-duty applications where high levels of shock, vibration, and stress are present.

Physical Properties - Monomer (Uncured)

Base Compound	Dimethacrylate Ester
Appearance	Red Liquid
Viscosity	500 +/- 200 cps (Brookfield Spindle 3 @ 20 rpm, RVT, 25°C)
Gap Fill	.007"
Specific Gravity	1.1
Flash Point	>200°F / 93°C
Shelf Life	12 months unopened
Storage Condition	20°C / 68°F
RoHS-Compliant	yes

Physical Properties - Polymer (Cured)

Appearance	Red Solid
Locking Strength	High
Service Temp Range	-65 to 300 °F (-54 to 149 °C)
Full Cure Time	24 hours

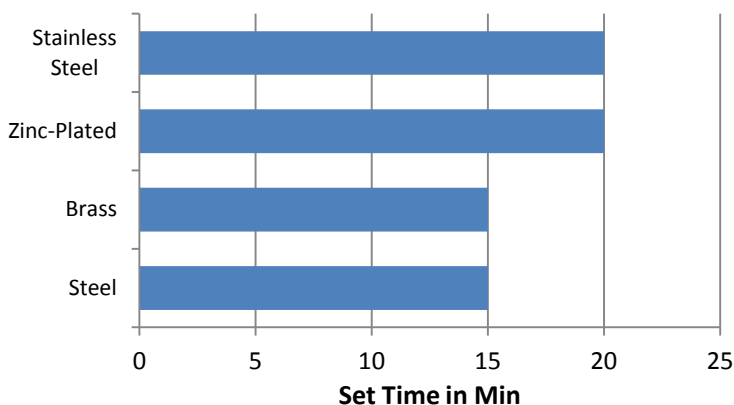
Performance of Cured Adhesive

	inch-pounds	Newton meters
Breakaway Torque	140.0 to 320.0	15.82 to 36.16
Prevailing Torque	200.0 to 440.0	22.60 to 49.71

Setting Time / Full Cure Time*

	15	minutes	/	24	hrs
Steel	15	minutes	/	24	hrs
Brass	15	minutes	/	24	hrs
Zinc-Plated	20	minutes	/	24	hrs
Stainless Steel	20	minutes	/	24	hrs

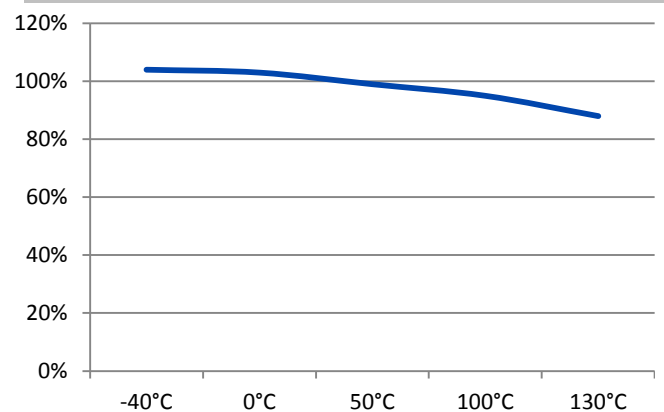
*68°F / 20°C, 65% RH



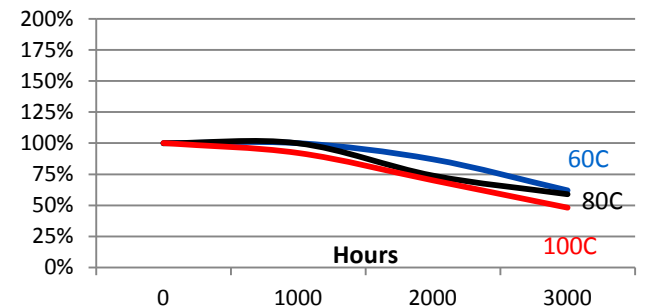
Specifications and Approvals

Mil-S-46163A, Type I Grade K; ASTM D-5363 AN 0221

Hot Strength (%RT strength, tested at temperature)



Heat Aging (aged at temp indicated and tested @ 22°C)



Solvent Resistance

Solvent	Example	Resistance
Alcohol	Ethanol, Methanol	+++
Ester (aromatic)	Ethylacetate	---
Ketone (aromatic)	Acetone, Benzophenone	---
Aliphatic hydrocarbon (alkanes)	Petrol, Heptanes, Hexane	++-
Aromatic hydrocarbons	Benzyl, Toluol, Xylol	++-
Halogenated hydrocarbons	Methylenchloride, Chloroform, Chlorobenzol	---
Weak aqueous acid	Nitrite, muriatic acid, sulphuric acid, phosphoric acid	+++ (--- if concentrated)
Weak aqueous base	sodium hydroxide solution, caustic potash	+++ (--- if concentrated)

General Instructions

Surfaces to be bonded should be clean and dry and free of grease. Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps that will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours. This product is not recommended for use in pure oxygen environments and/or oxygen-rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

Curing Performance

The gap of the bond line will affect set speed. Smaller gaps tend to increase set speed. Activators may be applied to further improve set speed, but may also impair overall adhesive performance.

Storage

Products should be stored unopened in a cool, dry place out of direct sunlight. Products may be refrigerated for improved shelf life, but should be brought back to room temperature before use.



Updated

7/24/2012

Note

The data contained herein are furnished for information only and are believed to be reliable. Cyberbond cannot assume responsibility for the results obtained by others over whose method Cyberbond does not control. It is the user's responsibility to determine suitability for the product or of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Cyberbond specifically disclaims all warranties of merchantability or fitness for a particular purpose arising from sale or use of Cyberbond products. Cyberbond specifically disclaims any liability for consequential or incidental damages of any kind, including loss of profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Cyberbond patents which may cover such processes or compositions. We recommend that each prospective user test the proposed application to determine its suitability for the purpose intended prior to incorporating any product or application in its manufacturing process using the data as a guide.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS)

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