

MacSoon JS648

DESCRIPTION

JS648 is a single component, low viscosity, high strength, anaerobic retaining adhesive which cures when confined in the absence of air between close fitting metal surfaces. It is designed for the bonding of cylindrical fitting parts with approach maximum 0.15mm gaps. JS648 provides robust curing performance. It not only works on active metals but also on passive substrates such as stainless steel and plated surfaces. The product offers high temperature performance and oil tolerance. It tolerates minor surface contaminations from various oils, such as cutting, lubrication, anti-corrosion and protection fluids. Typical applications include the locking bushings and sleeves into housings and on shafts.

KEY FEATURES

- ▶ Simple and easy-to-use; one component system
- ▶ Meet ROHS/REACH
- ▶ Positive under UV light for easy detection
- ▶ 100% filling between the bonding area, approach maximum 0.38mm
- ▶ Solvents resistant and high temperature resistant to 180°C
- ▶ High speed curing with the JS7649 activator
- ▶ High bonding strength to transfer heavy load

APPLICATIONS

- ▶ Cylindrical fitting parts retaining with maximum 0.38mm gaps to prevent loosening and leakage from shock and vibration.
- ▶ Locking bushings and sleeves into housings and on shafts with no need of the complex geometric construction design, hot-cold assembly, interference assembly, etc.

TYPICAL PROPERTY DATA

(JIS K 6249)

BOFORE CURING	
Appearance	Green
Cure Type	Anaerobic
Secondary curing	JS7649
Fluorescence	Positive
Specific Gravity at 25°C (g/ml)	1.10
Viscosity at 25°C (mPas) (Brookfield viscometer, RVT, 3#spindle 20rpm)	450-550
AFTER CURING	
15min Compressive shear strength (N/mm ²)	>=12.5

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(Steel Pin-Collar, 0.05mm gap)	
1 hour Compressive shear strength (N/mm ²) (Steel Pin-Collar, 0.05mm gap)	>=15
24 hour Compressive shear strength (N/mm ²) (Steel Pin-Collar, 0.05mm gap)	>=25
24 hour Compressive shear strength (N/mm ²) (Steel Pin-Collar, 0.15mm gap)	>=15
24 hour Compressive shear strength (N/mm ²) (Steel Pin-Collar, 0.25mm gap)	>=10
24 hour Compressive shear strength (N/mm ²) (Stainless steel Pin-Collar, 0.05mm gap)	>=15

SPECIFICATION

Typical product data values should not be used as specification. Assistance and specification are available by contacting Yantai Everwell New Material Technology Co., Ltd

HANDLING AND SAFETY

When solvents are used, proper safety precautions must be considered toxic and must be used only in well-ventilated areas.

USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.

CAUTION!	HANDLING PRECAUTIONS	FIRST AID MEASURES
1.FOR INDUSTRIAL USE ONLY 2.This product is neither tested nor represented as suitable for medical or pharmaceutical uses. 3.Do not use this product for other than its intended use, or user shall bear responsibility for any problems.	1.Wear suitable protective goggles, respirator and gloves. 2.Use only where an adequate ventilation system is available to exhaust poisonous gases. 3.After handling, wash face and hands very thoroughly. 4.Keep out of reach of children. 5.Store in a cool, dark and dry place.	1.Inhalation: Remove to fresh air and get medical attention immediately. 2.Eye contact: Immediately flush eyes with plenty of water for at least 15minutes.Get medical attention immediately. 3.Skin contact: Immediately flush skin with plenty of soap and water for at least 15minutes.Get medical attention immediately. 4.Ingestion: Induce vomiting and get medical attention immediately. 5.See material safety data sheet.