



SARA SAE ENGINEERING SPECIFICATION

Section: SES 26 – 787

Issue: "A"

Rev No.: "0"

Eff. Date: 15/05/2015

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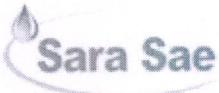
MATERIAL SPECIFICATION FOR MOLYBDENUM DISULFIDE (MoS₂)

Rev	Reason of Change	Date	Made By	Reviewed By	Approved By	Status
"0"	--	15/05/2015	HARSH KUMAR SHARMA	PANKAJ KUMAR	K.C. RATURI	RELEASED

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Pankaj Kumar

De

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MATERIAL SPECIFICATION FOR MOLYBDENUM DISULFIDE (MoS₂)

1.) SCOPE

- 1.1 - MOLYBDENUM DISULFIDE (MoS₂) is primarily used for its lubricity . it consists of thermosetting , resin bonded , solid film lubricant .
- 1.2 - This specification defines the requirement for MOLYBDENUM DISULFIDE (MoS₂) coating on stainless steel (SS) and corrosion resistance alloys (CRA'S).
- 1.3 - This coating provides excellent wear life , abrasion resistance , very good chemical resistance and performs best in higher load carrying applications.

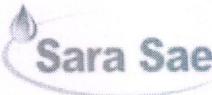
2.0 OPERATION

2.1 CONCENTRATION:-

- 1 . **DILUTION/CLEANUP SOLVENT :** N/A – May Be Thinned With Deionized Water Less Than 10% By Volume.
- 2 . **DILUTION RATIO :** 0 To 9:1 (Product To Solvent)
- 3 . **CURE CYCLE :** 1 Hr. + / - 15 Min. @ 375° F
OR
2 Hr . + / - 15 Min . @ 300° F
- 4 . **DRY FILM THICKNESS :** 0.2 To 0.5 Mils (5 To 13 Microns)

3.0 HAZARDOUS INGREDIENTS

- Oxidizers , Strong Acids Or Alkalies .

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4.0 PHYSICAL PROPERTIES

1 . – COLOUR AND APPEREANCE	: Gray/Black Matte Finish
2 . – CARRIER	: Water Based
3 . – DENSITY	: 10.9 + - 0.5 Lb/Gal(1270 + - 60 Grams/Liter)
4 . – FLASH POINT	: 200° F (93° C)
5 . – VOLATILE ORGANIC COMPOUND	: 183 Gram/Liter (1.52 Lb/Gal)
5 . – SOLIDS (BY WEIGHT)	: 40 TO 44 %
6 . – THEORITICAL COVERAGE	: 698ft ² / Gal @ 0.5 Mils (17.1 M ² / Liter @ 12.7 Microns

5.0 STORAGE AND HANDLING PRECAUTION

- 1 .) SHELF LIFE: One year from the date of shipment ,
- 2 .) STORAGE : Do not freeze . Stored in a factory sealed container between the temperature , 40° to 90° F .

6.0 DOCUMENTATION REQUIRED

Each shipment shall be accompanied by material certifications for each lot of material, certifications must be positively relatable to the lot of material represented.