	SARA SAE ENGINEERING SPECIFICATION	
	Section: SES 26 – 787	
	Issue: “A”	Rev No.: “0”
	Eff. Date: 15/05/2015	Page: 1 of 3

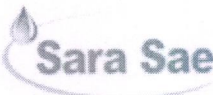
**MATERIAL SPECIFICATION FOR  
MOLYBDENUM DISULFIDE ( MoS<sub>2</sub> )**

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

*Harsh*

*Pankaj Kumar*

*K.C.*

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	<b>Eff. Date: 15/05/2015</b>	<b>Page: 2 of 3</b>

## **MATERIAL SPECIFICATION FOR MOLYBDENUM DISULFIDE ( MoS<sub>2</sub> )**

### **1.) SCOPE**

- 1.1 - MOLYBDENUM DISULFIDE ( MoS<sub>2</sub> ) 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 ( MoS<sub>2</sub> ) 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.

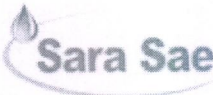
### **2.0 OPERATION**

#### **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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	<b>Issue: “A”</b>	<b>Rev No.: “0”</b>
	<b>Eff. Date: 15/05/2015</b>	<b>Page: 3 of 3</b>

#### **4.0 PHYSICAL PROPERTIES**

- |                                 |  |
|---------------------------------|--|
| 1 . – COLOUR AND APPEARANCE     | : 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 <sup>2</sup> / Gal @ 0.5 Mils ( 17.1 M <sup>2</sup> / 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.