

ITW SHAKEPROOF INDUSTRIAL PRODUCTS

FINISH
CODE

REVISION
LEVEL

BRIEF DESCRIPTION:

MOLYBDENUM POWDER

BB

0

REV DATE: 4/1/2007

GENERAL DESCRIPTION

THIS SPECIFICATION DESCRIBES THE PROPERTIES OF A MOLYBDENUM DISULFIDE POWDER OF A PURITY AND GRADE SUITABLE FOR GENERAL LUBRICATION USE, SUCH AS ON RUBBER PARTS. IT SHALL NOT BE AFFECTED BY LOW TEMPERATURE AND IN AIR MAY BE USED AS A LUBRICANT UP TO 400 C. A SLURRY OF 10 GRAMS OF MoS₂ WITH 5 GRAMS OF MINERAL SPIRITS SHALL BE MIXED AND BRUSHED ON POLISHED COPPER & OR SANDBLASTED, AND SUSPENDED VERTICALLY UNTIL DRAINAGE CEASES. THE PANELS SHALL BE PLACED IN AN OVEN AT 102-104 C FOR 24 HOURS. THE FILM OF MoS₂ SHALL BE REMOVED BY DIPPING IN MINERAL SPIRITS, FOLLOWED BY WIPING WITH ABSORBENT CLOTH.

APPEARANCE

DULL GRAY FINISH

ADHESION AND DUCTILITY

NOT APPLICABLE

CORROSION REQUIREMENTS

RED RUST:

WHITE CORROSION:

NO PITTING, ETCHING, OR HEAVY STAINING

COATING THICKNESS REQUIREMENTS

MoS₂ (weight %) 98% min. Moisture by loss of weight 0.7% max. ASTM D792 TYPICAL PROPERTIES: Particle size data (fineness) The average particle size shall be no larger than 10 microns. Oil content (Acetone extractable %) 0.5% max

STRESS RELIEF

NOT REQUIRED

QUALITY CONTROL

VISUAL INSPECTION OF THE PARTS TO ENSURE THAT THE SURFACE IS FREE OF OIL, GREASE, RUST, SCALE, AND FOREIGN MATTER. VISUALLY INSPECT FOR UNIFORMITY OF COLOR & SURFACE APPEARANCE, FREEDOM FROM TEARS, BARE SPOT, POWDERY FILM. SLOUGHING OFF OF FILM & BLISTERING. THE PANELS SHALL BE EXAMINED FOR PITTING, ETCHING, OR STAINING. A SLIGHT BROWN STAIN SHALL NOT BE CAUSE FOR REJECTION

EQUIVALENT SPECS

VALEO VMS-2141

APPROVED SUPPLIERS:

PRINT DATE:

3/19/2007