PETRICO®
Formulating Solutions

Petadd MD(SF)

Super Fine Grade Molybdenum Disulfide

Description

Petadd MD(SF) is a super fine grade molybdenum disulphide intended for use as a 'solid', dry lubricant. This product excels when used as a lubricating material due to its layered structure, low friction coefficient, and relative robustness. Displaying impressive superlubricity, this product is also highly stable in oxidising environments.

Application

- Commonly used as a dry lubricating additive in greases and for sintered metal parts.
- May be used as a cocatalyst for desulfurization.
- May be used a hydrogenation catalyst for organic synthesis, readily converting nitro compounds to amines.

Typical Properties

Property	Typical	Min.	Max.
Appearance	Black Powder	-	-
Active Ingredient (%m)	-	98.0	-
Particle Size (D50, µm)	-	1.15	1.55
Acid Insolubles (%m)	-	-	0.50
Carbon Content (%m)	-	-	0.60
Oil Content (%m)	-	-	0.40
Molybdenum Trioxide (%m)	-	-	0.15
Silicone Dioxide (%m)	-	-	0.10
Water Content (%m)	-	-	0.15
Acid Number (mgKOH/g)	2.0	-	-

Storage and Handling

Store in original packaging in a cool, dry, well-ventilated place. Keep away from sources of heat and ignition. Handle in accordance with good industrial safety and hygiene practice. Consult the SDS for further information.