

MOLYZOL™ MOLYBDENUM DISULFIDE

Product Description

Molyzol™ Molybdenum Disulfide is an inorganic compound with the formula MoS₂. Its reactivity is low, rendering it resistant to dilute acids. In terms of its appearance and feel, Molybdenum Disulfide is similar to graphite and, like graphite, it is widely used as a solid lubricant in greases for high sliding, excellent extreme pressure and anti-wear properties in harsh operating conditions to prevent galling and wear under shock loads.

Properties

Molyzol™ Moly Disulfide is a lubricant grade of Molybdenum Disulfide (MoS₂). Molyzol™ is available in three grades – Technical, Technical Fine & Super Fines. The typical MoS₂ content of Molyzol™, as a calculated average, is 98% minimum.

Specification

Item	Technical (Max %)	Technical Fine (Max %)	Super Fine (Max %)
Acid Insoluble	0.50	0.50	0.50
Iron	0.30	0.30	0.30
Molybdenum Trioxide	0.05	0.05	0.15
Water	0.02	0.05	0.15
Oil	0.30	0.40	0.40
Carbon	1.50	1.50	1.50
Acid Number (TAN)	0.05	0.25	0.5

Typical Particle Size & Bulk Density

Molysulfide Grade	Fisher Number μm	Particle Size Range by SEM, μm	Median Particle Size, μm **	Bulk Density (Scott)
Technical *	3 - 4	1 - 100	35	1.3 g/cm ³
Technical Fine	0.7 - 0.85	0.5 - 20	6	0.4 g/cm ³
Super Fine	0.45 - 0.55	0.5 - 8	1.5	0.3 g/cm ³

* Sieve Analysis (British Sieve Series) 100% through 100 Mesh

** Malvern

Disclaimer

This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

Health and Safety

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

For further handling information, please refer to the Molyzol™ Safety Data Sheet of the product.

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