

Product Data Sheet

Vacmul O3D Low Viscosity Straight Cutting Oil

Product Description

Vacmul O3D is a very low viscosity transparent, light brown product containing a non-corrosive sulphurised fat.

It is made from highly refined mineral oils and special additives to impart fast clean cutting characteristics. The additive materials are carefully selected to reduce abrasive wear and provide clean effective cutting grit edges to give fast stock removal. The viscosity is controlled to give good penetration to the cutting area and to ensure that cutting fines are speedily flushed away. It also permits fines to settle out quickly from the oil in sedimentation tanks and assists filtration of the oil for re-use in circulation systems.

Benefits

Vacmul O3D offers the following benefits:

- Long oil life due to easy efficient filtration
- Rapid removal of fines due to carefully selected viscosity
- Long hone life due to anti-wear characteristics in the fluid
- High quality surface finish due to balanced oil properties and selected additive materials
- Fewer rejects due to rapid heat removal and reduced dimensional distortion
- Fast stock removal giving increased production and shorter machining cycles
- Lower tool costs

Application

Vacmul O3D is specifically formulated and recommended for razor blade grinding and honing. It is particularly suitable for light duty high speed applications for all metals and for use in large volume circulation systems where continuous filtration is employed.

Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Typical Characteristics

| | | Vacmul O3D |
|---------------------------------|-----------|------------|
| Viscosity, cSt at 40°C | ASTM D445 | 4.8 - 8.0 |
| Flash Point, COC, min, °C | IP 36 | 126 |
| Copper Corrosion, 3hrs at 100°C | ASTM D130 | 2A |

Due to continual product research and development, the information contained herein is subject to change without notice.

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