



EXCELLENCE IN LUBRICANTS

TECHNICAL DATA SHEET

Excelfluid 2238



EXOL LUBRICANTS LIMITED

ALL SAINTS ROAD, WEDNESBURY, WEST MIDLANDS, ENGLAND, WS10 9LL

TEL: +44 (0) 121 568 6800 • FAX: +44 (0) 121 568 6720

WWW.EXOL-LUBRICANTS.COM



Excellfluid 2238

An ultimate water-mix metalworking fluid designed for multiple applications

Product code: S091

Product Description:

Excellfluid 2238 has been formulated to cross all performance boundaries. The formulation is based on a unique additive combination working in perfectly balanced synergy to enable neat oil applications such as broaching and gear cutting to be considered for a switch to water soluble technology. It is inherently low foaming and is a perfect choice for use in hard water conditions. Excellfluid 2238 is without doubt a quality choice of fluid for every difficult application.

Background:

Excellfluid 2238 offers excellent cutting performance and can be used in all types of arduous manufacturing applications. The performance additives incorporated into the fluid provide outstanding surface finish on all types of aluminium and associated alloys as well as steels. The unique formulation prevents scum and soap formation associated with more reactive materials. Excellfluid 2238 has been proven to have outstanding tool life performance when used in the machining of titanium as well as demonstrating superb properties when used in the machining of high tensile steels.

Features & Benefits:

- Excellent high shear performance characteristics
- Loaded with EP performance
- Secondary amine free
- Used in all difficult applications
- Low foaming tendency
- Multi-metal compatible
- Outstanding levels of boundary lubrication

Typical Test Data:

Appearance of Concentrate	Amber liquid
Odour	Sweet
Emulsion Appearance	Milky white
Specific Gravity	1.022
pH @ 5%	9.3
IP287 Breakpoint, %	2.0
De-foam in 50ppm water	Nil after 10 seconds
Reichert Performance @ 10%	Noise Reduction 3.0m Load Capacity 3.64Kg/mm ²
Refractometer Correction Factor	1.1



TECHNICAL DATA SHEET

Refractometer Dilutions:

General Machining 5-6%

Gear Cutting 6%

Deep Hole Drilling 7%

Broaching 9%

Dilutions can be increased further to gain greater performance.

Health & Safety:

Please refer to the safety data sheet, a copy of which is freely available to all of our customers.