

TECHNICAL DATA SHEET

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POTENZACOOOL 37

A TRULY VERSATILE, MULTI-FUNCTIONAL SEMI-SYNTHETIC METALWORKING FLUID BASED ON ENVIRONMENTALLY RENEWABLE TECHNOLOGY

PRODUCT IDENTIFIER

Product trade name: **Potenzacool 37**
Internal code: 29100-

USE OF THE SUBSTANCE/PREPARATION

Application: Water Soluble Cutting Oil

COMPANY/UNDERTAKING IDENTIFICATION

Supplier: Chemical Solutions and Innovations Pty (Ltd) Unit 4
35 Kurland Road, Perseverance, 6220
Phone: +27(0)41 585 5578
Fax: +27(0)41 463 0095
Internet: www.csi-africa.co.za

Technical contact point: Technical Manager
Phone: +27 (0)72 931 5645

Emergency telephone number: CSI Gauteng: +27 (0)11 392 2090
CSI Port Elizabeth: +27 (0)41 585 5578
CSI Cape Town +27 (0)21 555 2335

PRODUCT DESCRIPTION

Potenzacool 37 is a best-selling, multi-functional semi-synthetic metal working fluid which produces a translucent micro emulsion when diluted in water. This product is a true rationalization product and will perform most applications on a wide range of materials. The product when in use provides excellent cleanliness with low foam tendencies in soft and hard water. The unique emulsification package used in the products formulation prevents scums and soap formation build-up associated with the machining of more reactive materials.

BACKGROUND

Potenzacool 37 incorporates the latest non-staining performance additives to ensure complete multi-metal compatibility. Potenzacool 37 is based upon synthetic and natural esters in order to provide excellent machining performance across a wide range of applications. Potenzacool 37 produces a micro emulsion which allows for excellent visibility for the machine operator and has a low foaming tendency which allows for use in the most arduous modern-day machining centers.

FEATURES AND BENEFITS

- Based upon renewable technology
- Excellent medium severity performance characteristics
- Chlorine free
- Secondary amine free
- NP ethoxylates free
- Multi-Functional
- Low foaming tendencies
- Multi-Metal compatible
- Good levels of boundary lubrication

TYPICAL DATA

Appearance at 20°C	Amber Liquid
Odour	Sweet
Emulsion Appearance	Micro water white
Specific gravity	1.0 (typical)
pH (5% dilution)	9.3 (typ)
IP287 Corrosion Break Point, % vol	2.0
Reichert Lubricity Characteristics (10% Dilution)	
Noise Reduction (Meters)	28.0
Load Bearing Capacity (Kg/mm ²)	1.555
Refractometer Correction Factor	1.50
Aluminum Stain	No Stain

Refractometer Dilutions

Grinding 3%, General machining 5 – 7% and dilutions can be increased for the more arduous operations.

MATERIALS AND PERFORMANCE

MATERIAL TYPES	PERFORMANCE RATING	APPLICATIONS	RECOMMENDED DILUTION
Titanium	**	Tapping	6-10%
Aluminum	***	Milling	5-7%
Aero aluminum alloys	***	Turning	5-7%
High alloy/stainless steel	***	Reaming	8-10%
Copper/Brass	***	Sawing	5-8%
Cast Iron	****	Drilling	7-10%
Ferrous Metal	****	Grinding	4-6%

OTHER INFORMATION

FURTHER INFORMATION:

Training advice:

See our technical data sheet.

Technical contact point:

Technical Manager

Phone: +27 (0)72 931 5645

Prepared by:

Chemical Solutions and Innovations (PTY) LTD

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