SARCOOL TEC 5628

Last Updated: 09.01.2025
Product Code: IC05628

SARCOOL TEC 5628 is a medium to high lubrication, semi-synthetic microemulsion coolant. It provides excellent cooling and mechanical lubricity, along with the machine friendly characteristics you would expect from a premium coolant. While it is particularly well suited for machining and grinding cast iron it is suitable for use in mixed metal situations and is a proven performer when machining aluminium, inconel and titanium alloys.

SARCOOL TEC 5628 is designed with outstanding lubricity characteristics ensuring it is suitable for use on a majority of ferrous and non-ferrous materials, without the requirement for traditional extreme pressure additives. An excellent choice for machine shops attempting to find one product to meet the challenges of the entire facility.

APPLICATION

Applications — band sawing, belt grinding, Blanchard grinding, corrosion inhibition, cylindrical form grinding, double disc grinding, drilling, high-pressure, high- volume, in-feed centerless grinding, internal grinding, plain grinding, reaming, roll threading, surface grinding, surface milling, tapping, thread forming, through-feed centerless grinding, turning.

Metals — aerospace aluminium alloys, brass, bronze, cast iron, copper and ferrous metals

Industries — aerospace, compressor, energy, machine tool manufacturers and medical

BENEFITS

- Medium to high levels of lubrication without chlorinated or sulphurised EP additives.
- Compatible with aluminium, all steels, yellow metals and cast iron.
- Extremely hard water tolerant, excellent low foam performance in soft water.
- Alternative to emulsion products for machining of high silica aluminium alloys.
- Fine soluble oil emulsion reduces carry- off for low total operating cost.
- Fast wetting to get the fluid to the point of cut and fully coat the work piece and chips for superior corrosion prevention.
- No aggressive biocides.
- Easily recycled or disposed of without special handling or equipment Contains no DEA, chlorine, sulphur, nitrites, formaldehyde releasers, or phenolic compounds.
- Free of chlorinated EP additives, DEA, formaldehyde releasers, nitrites, sulphurised EP additives.

PERFORMANCE PROFILE

Recommended Metalworking Concentrations

Light Duty	5.0% – 6.0%
Medium Duty	7.0% – 8.0%
Heavt Duty	8.0% – 10.0%
Design Concentration Range	3.0% – 10.0%

TYPICAL PROPERTIES

Appearance (Concentrate)	Amber liquid
Appearance (Emulsion)	Semi translucent
pH (5% emulsion)	9.0 – 9.5
IP 287 Breakpoint	2.5%
Mineral Oil Content	Medium

Refractometer Conversion Factor	1.6
Make Up Water Hardness	0 – 450 ppm

FLUID MAINTENANCE

To check and maintain fluid concentration a refractometer is recommended, the resulting reading multiplied by the refractometer conversion factor will give the actual concentration strength. Maintaining a consistent concentration is paramount to prolonging the fluid sump life. To promote long service life, it is strongly advised that coolant systems are thoroughly sterilised with a System Cleaner prior to coolant changes (see Sarsol System Cleaner Technical Data Sheet for further information and guidelines).

Further tests for bacteria, fungus, pH and tramp oil contamination are available through our Cooltrak Fluid Management Service. This service offers guidance and assistance for users to comply with current HSE legislative requirements. Please contact us for further details.

HEALTH & SAFETY, STORAGE AND DISPOSAAL

Please refer to the Safety Data Sheet, freely available, for product handling and disposal advice. Please note that the SDS includes handling, storage, health and disposal information which should be passed on to anyone else who comes in contact with our product. Additional advice can also be obtained from your local representative.

NOTE: Read and understand all precautions on container labels before using this product.