

# TECHNICAL DATA SHEET

## QUAKERCOOL® 2780

### HEAVY-DUTY SYNTHETIC MACHINING AND GRINDING FLUID

QUAKERCOOL® 2780 is a heavy duty machining and grinding fluid.

#### Applications

QUAKERCOOL® 2780 provides a high degree of lubrication, cleanliness, cooling, and corrosion protection.

#### Recommendation for Use

It is suitable for use on difficult operations involving high alloy steel, carbon steel, and cast iron. This oil-free synthetic coolant also provides effective lubrication for many aluminum operations.

- Medium to heavy-duty machining
- Multi-purpose grinding
- Vitrified CBN Grinding

#### Customers

- Akebono
- Meritor

#### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions. This product has a shelf life of 12 months, and it should be stored out of direct sunlight in temperatures between 40°F (4°C) and 110°F (43°C).

#### Benefits

- Excellent cleanliness leaves machines and parts free of sticky residues
- The bland odor and moderate pH provide a worker friendly environment
- Produces little to no foam in soft to moderate water hardness conditions
- The extremely effective "block copolymer" synthetic lubricant features inverse solubility. It reacts to heat of metal deformation to provide instant added lubrication

#### Properties - Concentrate

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Clear light yellow fluid	
Pounds per gallon at 60°F	8.73	lbs/gal
Odor	Sweet	
Flash Point via COC	Does not flash	
Neat pH	9.0	

#### Properties - Dilution

PROPERTY	TYPICAL VALUE	UNIT
Appearance at 5.0%	Clear solution	
pH (5% in distilled water)	9.0	



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### Fluid Maintenance

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QUAKERCOOL® 2780 is added to water prior to use. Always add product to water to assure the best mixing. For grinding operations this product is normally used in the 1:20 to 1:35 range (product to water ratio). For machining operations, the typical dilution range is 1:10 to 1:35. Optimal dilution is dependent on the operation requirements and should be recommended by a Quaker Houghton representative.

### Cleaning and Protecting

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To clean and protect, after the metal removal operation, use Quaker Houghton cleaners (QUAKERCLEAN®) and corrosion preventives (FERROCOTE®) to enhance process compatibility. Consult your Quaker Houghton representative.

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. 014095

