



Aquatex® 3180

High performance general purpose soluble oil

Product Data Sheet

Product description

Aquatex 3180 is a high performance general purpose soluble oil, formulated for use in a wide variety of machining operations.

With special base oils, coupling agents and a high level of emulsifiers, Aquatex 3180 forms a very stable emulsion in relatively hard water.

Customer benefits

- High detergency performance keeps grinding wheels free of grit and fines, and flushes and settles chips
- Excellent foam suppression in high-speed operations
- High performance heat transfer and reduced tool/workpiece friction ensures precise dimensional accuracy and superior surface finish
- High-efficiency detergency rapidly removes debris and increases tool service life
- High level alkalinity reserve reduces emulsion acids, protecting machine and workpiece from rust and corrosion
- Highly stable, long-service alkaline emulsion resists bacterial degradation and biocides combat micro-organisms

Applications

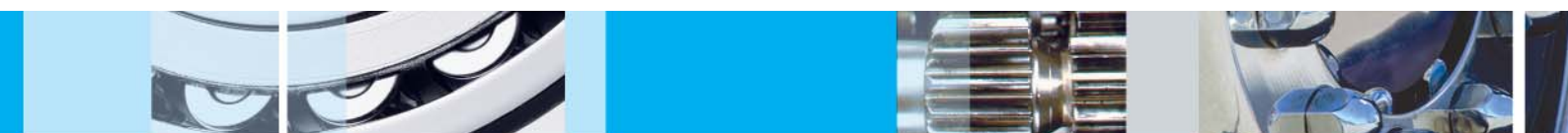
- Light machining such as drilling, planing, milling, sawing and turning operations on a variety of carbon and alloy steels ranging from soft to medium hardness, particularly where carbide tip tooling is being used
- Recommended for grinding operations where very clean emulsions are typically required to permit rapid settling of fines
- Water-containing metalworking fluids such as soluble oil emulsions should never be used for machining operations on magnesium or magnesium-containing alloys as a fire or explosion hazard may exist. The recommended product for machining these metals is Caltex Almag Oil.

Product highlights:

- Superior dimensional accuracy and surface finish
- High level detergency keeps tools clean
- Excellent foam suppression
- Increases tool service life

A Chevron company product

Global Lubricants



Dilution: General machining: 5 - 10%
Grinding: 5%

- Aquatex 3180 forms a milky white emulsion when mixed with water.
- For use in water with total hardness up to 200 mg/L.
- Always add oil to water (not water to oil).
- Refractometer factor is 1.1 (i.e., a refractometer reading of 1°Brix represents an emulsion strength of 1.1%)

Typical test data

AQUATEX 3180		
TEST	TEST METHODS	RESULTS
Product Code		530710.15
Appearance (in neat form)	Visual	Dark red
Density at 20 °C, kg/l	ASTM D1298	0.89
pH at 5% dilution, 20 °C	ASTM D1287	9.4
Break-point, %vol	IP 287	Max 4.0

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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