

ORASTAR 401

SEMI-SYNTHETIC, METALWORKING FLUID CONCENTRATE

APPLICATIONS

ORASTAR 401 is designed to be used in machines and operations where long fluid life is needed, such as in large individual machine or central system reservoirs. It is recommended for moderate-duty machining and grinding of ferrous metals, and some nonferrous metals.

Metals: Cast Iron, Nodular Iron, Carbon Steels, High Speed Steel, High Alloy Steels, Stainless Steels, Aluminium

Duty Range: For light to moderate-duty operations

FEATURES & BENEFITS

ORASTAR 401 is a clear, water soluble, semi-synthetic product.

Advantages: Exceptional rancidity control - Effective lubrication and cooling - Good settling properties - No nitrite

Effective Lubrication and Cooling:

A combination of chemical lubricants and wetting agents provide good machining and grinding properties - Keeps parts and tools cool - Extends tool life - Allows high speeds and feeds that increase production

Stable:

Can be used in individual machines as well as central system applications

Good Settling Properties:

Efficiently settles chips and grit - Produces a good cake on positive filters which removes recirculating fines and also lowers media usage - Parts and machines stay clean

Excellent Corrosion Control:

Organic and inorganic corrosion inhibitors protect machines and parts from rust

Environmentally Friendly:

Is easy to maintain and control - It is waste treatable - It can also be recycled for reuse

RECOMMENDED STARTING DILUTIONS

FOR INDUSTRIAL USE ONLY

Use between 5.0% (1:20) and 10.0% (1:10) for machining and grinding ferrous and nonferrous metals.

ORASTAR 401 is to be mixed with water for use (add concentrate to water). Add no other substances to the concentrate or mix unless approved by Victoria Lub Pty Ltd Technical Services. Not recommended for use with magnesium or alloyed magnesium.

TECHNICAL BULLETIN

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HIGH TECH LUBRICANTS AND ENGINEERING PRODUCTS

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance and odour:	Clear, yellow/chemical
Colours available:	Undyed, pink, blue
Solubility in water:	100% Miscible
Weight, lb/gal, 60°F (15.6°C):	8.83
Specific gravity, (H2O = 1):	1.058
Boiling point, °F (°C):	210 (99)
Flash point, COC, °F (°C):	None, self extinguishing
Fire point, COC, °F (°C):	NA
Extinguishing media:	NA
Unusual fire & explosion hazards:	None
Freezing point (or pour point), °F, (°C):	32 (0)
If frozen product separates. Thaw completely and stir thoroughly before using.	
pH, concentrate:	10.2
pH, 5.0% mix, typical operating conditions:	9.0
Total chlorine/chloride, wt%, calculated:	0.00/< 50 ppm
Total sulfur, wt%, calculated:	0.01
Silicones:	None

PACKAGING

Available in 20 Litre Containers and 200 Litre Drums

REFRACTOMETER FACTOR = 3.0

Multiply the scale reading obtained on your ORAPI Metalworking Fluid or other acceptable refractometer by the **Refractometer Factor** to obtain the mix concentration in percent.

NOTE: Calibrate the refractometer so that it reads 0.0 with water, before testing the sample mix. Remove gross contaminants from the sample mix, before testing.

