



## TECHNICAL DATA SHEET

### WS-1000 / PowerCool

Water-soluble oil metalworking fluid concentrate

#### DESCRIPTION

WS-1000 is a water-soluble oil cutting & grinding fluid with chlorinated extreme-pressure additives for moderate to heavy-duty general machining with ferrous and nonferrous metals.

#### APPLICATIONS

Moderate to heavy-duty machining and grinding

#### MATERIALS COMPATIBILITY

Recommended for ferrous/nonferrous metals, aluminum, brass, bronze, and copper. Limited use on titanium.

#### PHYSICAL PROPERTIES

<i>Concentrate Color</i> .....	Golden yellow to light brown
<i>Dilute Color</i> .....	Milky white
<i>Odor</i> .....	Mild, characteristic
<i>pH at 10%</i> .....	9.4
<i>Specific Gravity</i> .....	0.97
<i>Density</i> .....	8.1 lbs/gal (970 kg/m <sup>3</sup> )
<i>Flash Point</i> .....	> 200 °F (93 °C)
<i>Boiling Point</i> .....	> 212 °F (100 °C)
<i>Chlorine</i> .....	4.1%
<i>Mineral Oil</i> .....	58%
<i>Refractometer Index (% Brix)</i> .....	10:1 (10%) = 9.4
	20:1 (5%) = 4.7
	30:1 (3%) = 3.2

#### DILUTION RATIOS

These dilution ratios are meant to be used only as general guidelines and are not considered exact specifications. Please contact your Rustlick Sales Representative for an exact application concentration recommendation.

<i>Light-duty machining</i> .....	30:1 (3%)
<i>Moderate-duty machining</i> .....	20:1 (5%)
<i>Heavy-duty machining</i> .....	10:1 (10%)

#### AVAILABLE SIZES

<i>5 gallon; net weight 43 lbs (19.5 kg)</i> .....	82205
<i>55 gallons; net weight 480 lbs (218 kg)</i> .....	82255

#### HEALTH AND SAFETY

Use proper safety equipment. Avoid contact with skin, eyes, and clothes. Avoid inhaling vapor or mist. Keep away from extreme heat. Keep container closed when not in use. For complete Health and Safety information refer to product Material Safety Data Sheet (MSDS). Product MSDS can be downloaded from [www.rocolnorthamerica.com/msds.htm](http://www.rocolnorthamerica.com/msds.htm)

For more information contact 800-452-5823 ext. 2. or visit [www.rocolnorthamerica.com](http://www.rocolnorthamerica.com)

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