

## WS-11

### Water-Soluble Oil Metalworking Fluid Concentrate

#### DESCRIPTION

WS-11 is an economical general-purpose, water-soluble oil with thin oily-film corrosion protection. High levels of mineral oil offer great lubricity for longer tool life.

#### APPLICATIONS

- Light-duty operations
- General machining and grinding

#### MATERIALS COMPATIBILITY

- Recommended for ferrous metals, aluminum, and titanium
- Limited use for brass, bronze, and copper

#### PHYSICAL PROPERTIES

<i>Concentrate Color</i> .....	Dark brown
<i>Dilute Color</i> .....	Milky white
<i>pH at 10%</i> .....	9.0
<i>Specific Gravity</i> .....	0.92
<i>Density</i> .....	7.7 lbs/gal (922 kg/m <sup>3</sup> )
<i>Flash Point</i> .....	320°F (160°C)
<i>Boiling Point</i> .....	212°F (100°C)
<i>Chlorine</i> .....	None
<i>Mineral Oil</i> .....	85%
<i>Refractometer Readings</i> .....	10:1 = 10.5 20:1 = 5.3 30:1 = 3.5

#### DILUTION RATIOS

- General machining and grinding.....10:1 – 30:1

#### AVAILABLE IN

1 gal.....	74013
5 gal.....	74053
55 gal.....	74553

#### HEALTH AND SAFETY

Refer to MSDS (Material Safety Data Sheet) for complete information on health and safety on our web site at [www.rocolnorthamerica.com](http://www.rocolnorthamerica.com).

For additional information please contact our Customer Service Department at 800-452-5823 ext. 2.

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