



TECHNICAL DATA SHEET

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 ³)
<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 SDS (Safety Data Sheet) for complete information on health and safety on our web site at www.itwprofessionalbrands.com.

For additional information please contact our Customer Service Department at 800-241-8334.