



TECHNICAL DATA SHEET

WS-5050

Water-Soluble Oil Metalworking Fluid Concentrate

DESCRIPTION

WS-5050 is a superior heavy-duty, water-soluble oil with chlorinated extreme-pressure additives. It has great lubricity for extended tool life in extreme pressure and high temperature operations, especially with high nickel alloys, zinc, aluminum diecast, and stainless steel.

APPLICATIONS

- Heavy-duty operations
- General and CNC machining, milling, drilling, broaching

MATERIALS COMPATIBILITY

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

PHYSICAL PROPERTIES

<i>Concentrate Color</i>	Blue
<i>Dilute Color</i>	Milky blue
<i>pH at 10%</i>	9.5
<i>Specific Gravity</i>	0.96
<i>Density</i>	8.1 lbs/gal (969 kg/m ³)
<i>Flash Point</i>	230°F (110°C)
<i>Boiling Point</i>	212°F (100°C)
<i>Chlorine</i>	5%
<i>Mineral Oil</i>	55%
<i>Refractometer Readings</i>	10:1 = 11.0
	20:1 = 5.6
	30:1 = 3.7

DILUTION RATIOS

- Milling, tapping, threading, turning, sawing, drilling, broaching5:1 – 30:1
- General, form, and centerless grinding20:1 – 30:1

AVAILABLE IN

1 gal.....	74016
5 gal.....	74056
55 gal.....	74556

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.