



WS-40HW

WS-40HW is water-soluble, enriched with cationic surfactants for moderate machining and grinding operations on all ferrous and non-ferrous metals. It is formulated with refined naphthenic base oil, corrosion inhibitors, biocides and special emulsifiers to perform well even in high hard water (1000 ppm).

Features & Benefits

- Excellent hard water stability
- Special biocide package enhances the sump life
- Corrosion inhibitor package protects the job and machine from rusting
- Reduces wheel loading and dressing frequency
- Reduces machine downtime

Directions for use

WS-40HW should be diluted with water in the range of 10:1 to 60:1 depending upon the severity of the operation, work piece material and water hardness. The following practices help in achieving the full benefits of the product:

- Always add oil to water and never the other way
- ▶ Usage of low hardness (< 100 ppm), Low chlorides (< 30 ppm) water</p>
- Never add product directly to the sump. Add in the emulsion form
- Always clean the sump thoroughly before a fresh charge



Typical Properties

Attributes	Ref. Method	Specifications
Appearance	Visual	Amber clear liquid
Odour		Mild odour
Specific gravity @ 27°C	ASTM D 1298	0,93+/-0.01
Viscosity @ 37.8°C	ASTM D 445	53 +/- 5.0 CST
Emulsion type	Visual	Milky white emulsion
Emulsion stability test		
5% in 1000 ppm hard water	Internal	Passes
PH of 5% solution	Internal	9.4 - 10.2
Foam depression (in secs) 5% in D.M. water	IP 312/74	60 sec max
Cast iron corrosion test 5% in 1000 ppm	IP 287	Less than 1%
Hand Refractometer reading (1:20)	Internal	5.6 +/- 0.2
Oil content		70% max
HMIS Rating		
Health: 1	Reactivity: 1	Flammability: 1

Metal Compatibility	1	Operation	Concentration
Ferrous	Yes	Drilling	1: 15
Aluminum	Yes	Broaching	1: 10
Brass/copper	Yes	Tapping	1: 10
Magnesium	No	Milling	1: 25
Titanium	No	Boring	1: 15

Pack size: Available in 20 & 205 ltr drums

Note: For more details on storage and disposal please refer to material safety data sheet available on www.itwchemin.com

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