

## JICHUAN A. P. SOLUBLE OIL S-50

A PREMIUM QUALITY GENERAL PURPOSE SOLUBLE OIL

### PRODUCT DESCRIPTION:

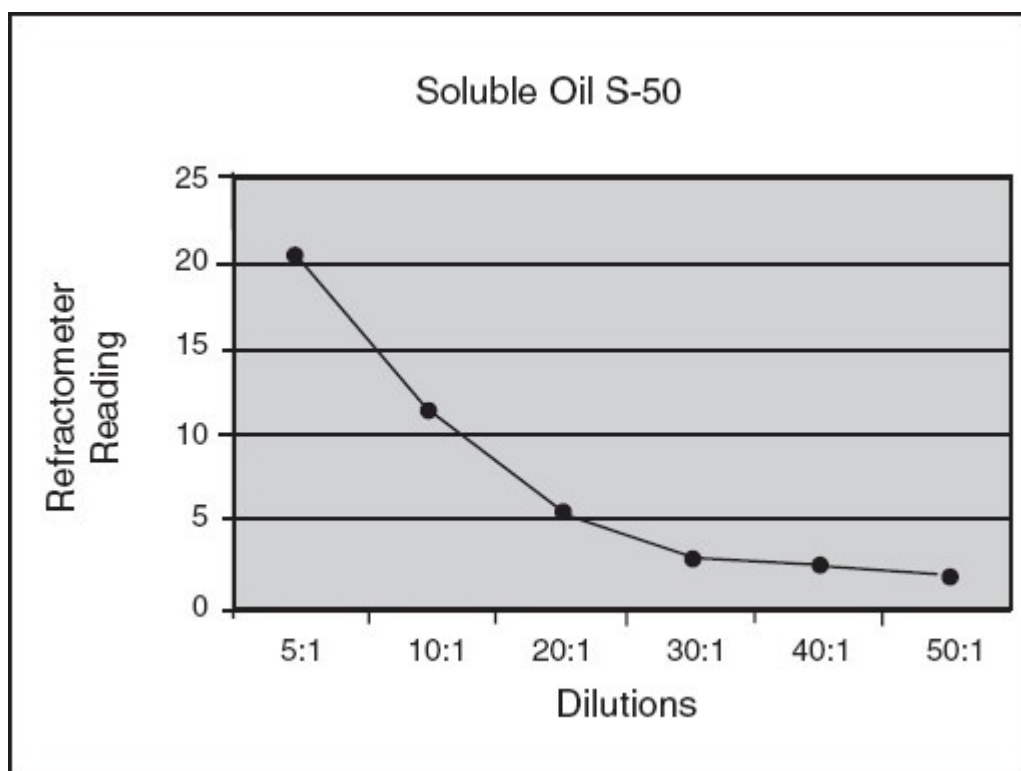
JICHUAN PREMIUM A.P. SOLUBLE OIL S-50 is manufactured from a select naphthenic base oil and compounded with an emulsifier which forms a stable milky-white emulsion when mixed with water. Additionally, it is inhibited against foaming, microbial growth, contains excellent rust preventive properties, and will emulsify readily in soft or hard water. This nitrite-free and phenol-free cutting fluid is safe to use in high speed cutting operations.

### TYPICAL USES:

- Used in cutting of ferrous and non-ferrous metals.
- Recommended for use in milling, boring and turning operations on non-ferrous and ferrous metals with machinability rating of 50-100. Approximate water to oil ratio; 30:1 for aluminum and copper - 10:1 for copper alloys - 15:1 for ferrous metals.
- Also used for such machining operations as planing and shaping, plain drilling and sawing of non-ferrous and ferrous metals with machinability rating 30-100. Approximate water to oil ratio - 30:1 for aluminum and copper - 10:1 for copper alloys - 20:1 for ferrous metals.
- Used for plain grinding operations of ferrous and non-ferrous metals at water to oil ratio of 40:1 to 50:1.
- Other uses: Rust preventative for automotive radiators at 40:1 ratio. Rust preventative in water hydraulic system at 10:1 ratio.
- NOTE: NEVER USE SOLUBLE OIL EMULSIONS FOR CUTTING MAGNESIUM. HOT MAGNESIUM AND WATER ARE A FIRE HAZARD.

### FEATURES:

- Forms stable emulsion.
- Foam inhibited.
- Rust inhibited for protection of machine parts and workpiece.
- Safe to use - nitrite-free and phenol-free.
- Inhibited with an effective anti-microbial agent.
- Excellent alkaline reserve.
- NOTE: ALWAYS ADD NEAT OIL TO THE WATER. NEVER ADD WATER TO THE OIL. THIS WILL AVOID THE POSSIBILITY OF GETTING AN INVERT EMULSION (WATER DROP SURROUNDED BY OIL) WHICH HAS LOW COOLING ABILITY.



## TYPICAL INSPECTIONS

GRAVITY, °API	20.3
APPEARANCE	Bright&Clear
COLOR, D-1500	3.5
VISCOSITY:	
SUS@100°F.	142
cSt@40°C.	30.0
COLD TEST@40°C.	No Separation
EMULSIBILITY	Pass
EMULSION STABILITY	Pass
FOAMING	Pass
pH, 5% in DI Water	9.2

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY