

# STARCHEM

## StarCool RP-100

*Water Soluble Rust Inhibitor*

### GENERAL DESCRIPTION

**StarCool RP-100** is a water-soluble rust inhibitor for ferrous metals. This highly concentrated synthetic product was designed to protect ferrous metal parts from corrosion while in process or during short-term storage. **StarCool RP-100** also prevents the formation of flash rust on parts during and after water-based cleaning processes. The thin, imperceptible film left on parts dipped in **StarCool RP-100** prevents rust under high humidity and temperature conditions yet will not interfere with subsequent painting, plating or welding operations.

**StarCool RP-100** does not contain nitrites or petroleum oils.

### APPLICATION

**StarCool RP-100** is recommended at 1% on steel alloys, and 3% on cast irons. Lower or higher concentrations may be used depending upon environmental conditions such as humidity and temperature, water quality, desired storage time, and the particular metal.

### ADVANTAGES

- Effective at low concentrations
- Will not interfere with painting, plating or welding operations
- Does not foam
- Environmentally friendly

**StarCool RP-100** is not recommended for use on alloys of aluminum, magnesium or copper.

### AVAILABILITY

**StarCool RP-100** is available in 5-gallon pails, 55-gallon drums, and in bulk.

**PHYSICAL PROPERTIES**

<b>Form</b>	Clear Liquid	<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.06
<b>Boiling Point</b>	212°F	<b>pH (concentrate)</b>	10.5
<b>Flash Point (COC)</b>	NA	<b>Typical Operating pH Range</b>	9.8 – 10.2
<b>Solubility in Water</b>	100% Miscible	<b>Refractometer Factor</b>	3.3

**MIXING INSTRUCTIONS**

Always add **StarCool RP-100** concentrate to water. Mix concentration can be determined using a refractometer.

**StarCool RP-100 CONCENTRATION**

<b>Concentration</b>	<b>1% (1:100)</b>	<b>2% (1:50)</b>	<b>3% (1:33)</b>	<b>4% (1:25)</b>	<b>5% (1:20)</b>	<b>6% (1:17)</b>	<b>8% (1:13)</b>	<b>10% (1:10)</b>
<b>Refractometer reading</b>	0.3	0.6	0.9	1.2	1.5	1.8	2.4	3.0

**HEALTH & SAFETY**

The most recent MSDS is available from either **STARCHEM** or your authorized **STARCHEM** Distributor.

**NOTES**

- Consult **STARCHEM** before using this product on any metals or applications not specifically recommended
- Do not use any metalworking fluid additives except as recommended by **STARCHEM**
- The general description, recommended uses, application data and statements in the product literature are guidelines. Because this product may be used for a variety of applications over which the manufacturer has no control, the manufacturer assumes no liability for incidental, consequential, or direct damages of any kind, regardless of causes, including negligence.

**CIMCOOL® FLUID TECHNOLOGY**

3000 Disney Street  
Cincinnati, OH 45209

Tel (513) 458-8199 Fax (513) 458-8179