



# MET-L-COOL

Cut Machining Costs. Power Profits

## Syn - C - 100

**Syn - C - 100** is high performance environment friendly, long life synthetic metal working fluid, suitable for grinding operations of all ferrous and its alloy metals. It is formulated with high performance corrosion inhibitor package. **Syn - C - 100** is designed to give good sump life with good finish.

### Features & Benefits

- ▶ No hazardous materials like Chromates, Nitrites, Phosphates, Sulphates and Chlorides
- ▶ Corrosion inhibitor package protects the job and machine from rusting
- ▶ Reduces wheel loading and dressing frequency
- ▶ Reduces machine downtime

### Directions for use

**Syn - C - 100** should be diluted with water in the range 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:

- ▶ Usage of low hardness (< 100 ppm), Low chlorides (< 30 ppm) water
- ▶ Always clean the sump thoroughly before a fresh charge
- ▶ Maintain the concentration

**No Heavy  
Metals**

## Typical Properties

Attributes	Ref. Method	Specifications
Appearance	Visual	Orange clear liquid
Odour	Mild odour	
Specific gravity @ 27°C	ASTM D 1298	1.03 +/- 0.02
Viscosity @ 37.8°C	ASTM D 445	3.0 +/- 1.0 CST
Emulsion type	Visual	Green transparent liquid
Emulsion stability test 5% in 400 ppm for 24 hrs	Internal	Passes
PH of 5% solution	Internal	9.7 - 10.5
Foam depression (in secs)	IP 312/74	20 sec
Cast iron corrosion test 3% 200 ppm water	IP 287	Less than 1%
Refractometer reading (1:20)	Internal	1.6 +/- 0.20
Oil content		Nil
<b>HMIS Rating</b>		
Health: 1	Reactivity: 1	Flammability: 0

Metal Compatibility	Operation	Concentration
Ferrous	Yes	Drilling
Aluminum	Yes	Broaching
Brass/copper	Yes	Grinding
Titanium	No	Tapping
Magnesium	No	Milling
		Boring

**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](http://www.itwchemin.com)

### Other World Leading Products from ITW Chemin

#### Maintenance, Repair, Overhaul Solutions



Lubricants, Cleaners,  
Degreasers



Metal-filled Epoxies  
and Urethanes



High-performance  
Industrial Grease



Loosens • Lubricates • Maintains  
Instant Rust Fighter  
in Aerosol Can



Contact Cleaner



Marking System, Staining Colours  
and Steel Blue Layout Liquids

#### Automotive Solutions



Precision Chucks and Solutions  
Workholding Devices



Eliminate Rust. Improve Profits.  
Rust Preventive Chemicals



Aqueous Cleaners



Microlubrication Systems

#### Automotive After Market Solutions



Complete Automotive Maintenance



Brake & Parts Cleaner

#### Adhesive & Sealant Solutions



Structural Adhesives

# ITW Chemin

A business unit of ITW Inc. USA

Speciality Chemicals, Lubricants and Equipment Manufacturers



ISO 9001

ISO 14001

OHSAS 18001

ITW India Limited, Plot No. 34 to 37, Phase-2, IDA, APIIC Pashamylaram, Medak Dist. - 502 307(35 km from Hyderabad), A.P. India.  
Telephone: +91-8455-224700, 01, 03, 04, 06, 07, 08. Facsimile: +91-8455-224705. Website: [www.itwchemin.com](http://www.itwchemin.com)