



## **POWER SYNTHCOOL 50** **Synthetic Grinding Cutting Fluid**

**POWER SYNTHCOOL 50** is a water-soluble nitrite free Synthetic type grinding coolant. It contains special Lubricity additive and rust inhibitor, which protects both ferrous & non-ferrous metal components of machine tools. This product has remarkable anti-rust characteristics. This product is intended for grinding of cast iron & Ferrous metals to achieve high degree of surface finish

**PERFORMANCE STANDARDS:** BIS: 11186-1985 (Reaffirmed 1990)

### **APPLICATION:**

- Power Synthcool 50 is recommended for grinding of cast iron & Low carbon steel. They are the right choice for grinding where wheel grains must cut continuously with out any blockage of grains.
- Power Synthcool 50 is recommended for Surface, cylindrical, Double disk & centre-less grinding operations
- Recommendation for Cast iron, Low carbon steel

### **PERFORMANCE BENEFITS:**

- Excellent cooling and lubricating properties
- Reduces Wheel Loading & Dressing frequency
- Long grinding wheel life as a grinding coolant
- Stable clear emulsion even in very Hard water
- Offers excellent rust protection
- Nitrite & Chlorine free hence environmentally safe.

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Disclaimer: APAR makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the products for the application contemplated by the user is solely their responsibility.



### Typical Physical Characteristics

CHARACTERISTICS	POWER SYNTHCOOL 50
Appearance	Clear liquid
Density @ 29.5 °C	0.998 (T)
Emulsion Test – 20:1 ratio in tap water & 500 ppm hard water	Translucent & Stable
Thermal Stability Test	Passes
Cast iron corrosion Test @ 3%, 200 ppm	<1
PH 2% dilution with D.M water	9.5
Refractometer Reading Factor	2.16

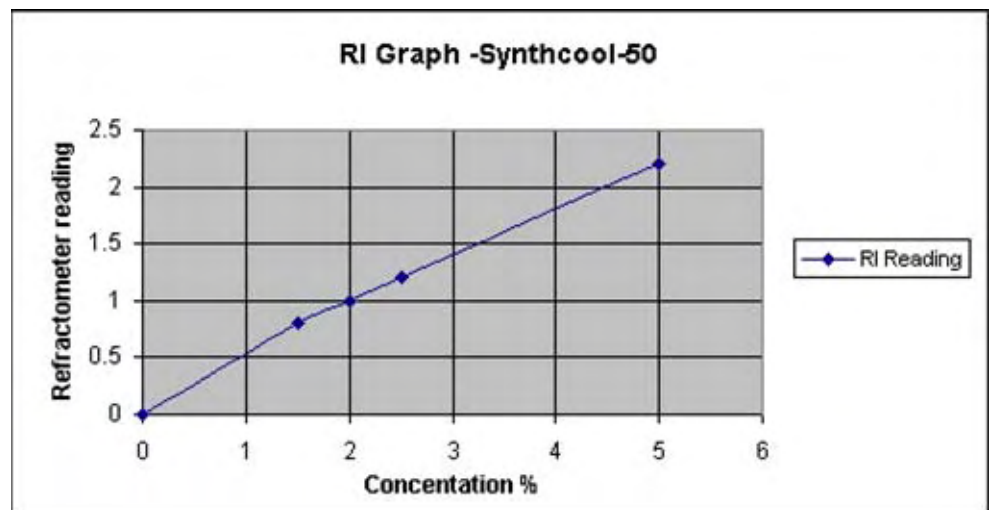
### Recommended Concentration:/Direction of use

- Grinding – Cast Iron -- 2.0 % -3.5%
- Grinding -Low Carbon & Alloy Steel --- 3.0% -5.0%
- While mixing always add oil to the water
- Use good quality water with water hardness less than 400 ppm and chloride content below 50ppm
- Use clean and sterilized sump before every fresh charge.

### Additional Information

#### Concentration monitoring

Concentration	RI Reading
0	0
1.5	0.8
2	1
2.5	1.2
5	2.2



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