

# **Balmerol<sup>®</sup> Balmocut SS Premium**

## **Semi – Synthetic Long Life Coolant For Severe Machining**

Technical Data Sheet

### **Product Description:**

Balmocut SS Premium is a low mineral oil containing, water miscible semi synthetic type cutting fluid, specially designed for general to severe machining applications on cast iron, steel and Ferrous alloys. It forms a long life, stable, finely dispersed clear translucent emulsion, when mixed with water. Balmocut SS Premium is free of nitrites, chlorine and phenols.

### **Features & Benefits:**

Balmerol Balmocut SS Premium provides the following benefits:

- Low Foaming even in soft water
- Forms a stable translucent emulsion , which offers excellent resistance to bacterial degradation
- Outstanding rust preventive property
- Excellent Lubricity and Flushing property
- Excellent Hard water stability upto 1000 ppm CaCO<sub>3</sub> / ltr
- Presence of Tramp oil
- Balanced EP package leads to enhancement in tool life

### **Applications / Recommendations:**

- Balmocut SS Premium is recommended for drilling, milling, boring, tapping, reaming ,Turning and grinding operations
- Suitable for cast iron, carbon steel and ferrous alloys, also for less severe operations on Stainless Steel
- Recommended Concentration:
  - Grinding : 3-4%
  - Normal Operation : 5-7%
  - Difficult operation : 8-12%

# Balmerol® Balmocut SS Premium

## Semi – Synthetic Long Life Coolant For Severe Machining

Technical Data Sheet

### Typical Properties:

Balmerol Balmocut SS Premium	
Properties	Balmocut SS Premium
Appearance	Clear
Density @ 29.5°C, g/ml, ASTM D 1298	0.995 ± 0.01
pH of 3% emulsion in DW @ 5%, pH meter	9.3 ± 0.2
Emulsion stability at 5% in 800 ppm Hard Water, Visual	Stable
Corrosion Test (chip/filter test) @ 5%, IP 125	0,0
Refractometer factor, % v/v	1.40-1.60

### Health and Safety:

Balmerol Balmocut SS Premium oil is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

**Balmer Lawrie & Co. Ltd.**  
SBU: Greases & Lubricants (G&L) Division  
P- 43, Hide Road Extension  
Kolkata: 700088  
www.balmerlawrie.com