

# Balmerol<sup>®</sup> Balmocut CL

## Emulsifiable Metal Cutting Fluid

Technical Data Sheet

### Product Description:

Balmerol Balmocut CL is a water soluble emulsifiable oil developed for metal cutting operations. Balmerol Balmocut CL easily emulsifies in hard (400ppm max) or soft water with minimum agitation. It has very good emulsion stability and stability to pH, thereby maintaining properties during prolonged usage.

### Features & Benefits:

Balmerol Balmocut CL offers the following advantages and benefits.

- Shows no change in characteristics upon freeze-thawing and gives excellent cleanliness to the machines
- Provides adequate rust protection for intermediate preservation of the worked components and offers good flushing of the chips
- Offers excellent lubricity that helps achieving improved surface finish of components
- With proper monitoring of emulsion, resists bacterial and fungal growth
- Meets IS:1115-1986 requirements
- Operator friendly

### Applications / Recommendations:

Balmerol Balmocut CL is suitable for less to medium severe cutting operations of ferrous and non - ferrous metals.

- Recommended concentration for general machining : 4 - 5%
- Recommended concentration for grinding : 2 - 4%

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### Typical Properties:

Balmerol Balmocut CL	
Properties	Balmocut CL
Type	Mineral oil based emulsifiable fluid
Appearance	Clear amber oil
Specific Gravity at 29.5 °C, ASTM D 1298	0.87 - 0.89
Kinematic Viscosity at 40 °C, ASTM D 445	25 - 35
Flash Point, °C (COC), ASTMD 92	170
pH of Emulsion in DM water @ 5% (v/v)	9.2 ± 0.20
Emulsion Stability test in water of 400 ppm hardness of CaCO <sub>3</sub> , IS 1448 P: 98	
a) 5:1	No separation of oil or scum
b) 20:1	No separation of oil or scum
Copper Strip Corrosion test at 100 °C / 3 Hrs, ASTM D 130	1b
Thermal Stability test, IP 1448 P:100	
a) @ 0 °C, 24 hrs	Passes
b) @ 50 °C, 24 hrs	Passes
Cast Iron Corrosion test, 20:1 in 400 ppm hard water as CaCO <sub>3</sub> , IP 287	0,0

#### Health and Safety:

Balmerol Balmocut CL 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:

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