

Balmerol® Aquaroll 622 (HC)

High Performance Semi Synthetic Cold Rolling Oil

Technical Data Sheet

Product Description:

Balmerol Aquaroll 622 (HC) belongs to the family of high performance semi-synthetic meta-stable emulsion forming cold rolling oils tailor-made for 6-Hi CR mills. It is formulated with a synergistic blend of synthetic esters, natural fats and special purpose additives to provide desired lubricity, load-bearing ability and resistance to oxidation & microbial growth. The formulation package provides good gauge reduction characteristics, enhanced roll life, very good strip cleanliness through its inherent detergency, total burn-off characteristic and greatly extended emulsion life.

Features & Benefits:

Balmerol Aquaroll 622 (HC) provides the following benefits:

- Outstanding inherent load bearing ability compared to mineral base product
- Fortified with special purpose additive to provide desired lubricity
- Excellent gauge reduction characteristics
- Good strip cleanliness, provided by inherent detergency and good burn off characteristics of this oil results in improved quality of rolled steel
- Much reduced specific oil consumption also ensures direct savings to the user

Applications / Recommendations:

- For best performance, Balmerol Aquaroll 622 (HC) is recommended to be used at an emulsion strength of 3-5%. The emulsion should preferably be made with demineralised water with low chloride and sulphate content, although, the product can withstand the effect of electrolytes to a considerable extent.
- Use of mechanical stirrers in the emulsion tanks would vastly facilitate uniformity of emulsion and resultant superior rolling performance. In absence of stirrers, continuous recirculation of the emulsion is recommended. Availability of electrical heating facility to maintain emulsion at 50-55°C is most beneficial for emulsion health and resultant rolling performance.

NOTE : Detailed guidelines regarding emulsion preparation, water quality and emulsion maintenance will be provided prior to commencement of usage

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Typical Properties:

Balmerol Aquaroll 622 (HC)	
Properties	Aquaroll 622 (HC)
Colour & Appearance	Dark Brown liquid
Kinematic Viscosity, ASTM D 445, cst @ 40°C	45 -55
Specific Gravity @ 30°C	0.90 - 0.92
Acid Value, mg KOH/g, max	12
Saponification Value, mg KOH/g	120 - 140
pH, 3% emulsion in distilled water	5 - 7
E.S.I. of 5% emulsion in DM water @ 55° C	0.65 - 0.80
Burn-off temperature (TGA), °C	Excellent

Health and Safety:

Balmerol Aquaroll 622 (HC) 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