

# **Balmerol® Aquaroll HI 20 (M)**

## **High Performance Synthetic Cold Rolling Oil**

Technical Data Sheet

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### **Product Description:**

Balmerol Aquaroll HI 20 (M) is tailor-made to suit 4-Hi CR mills designed for wide range of operating speeds. It belongs to the family of high performance synthetic stable emulsion forming cold rolling oils and is formulated with a synergistic blend of synthetic esters and special purpose additives to provide desired lubricity and load-bearing ability.

### **Features & Benefits:**

Balmerol Aquaroll HI 20 (M) provides the following benefits:

- Outstanding Inherent load bearing ability compare 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 HI 20 (M) is recommended to be used at an emulsion strength of 2-3%. The emulsion should be made with demineralised water with low chloride and sulphate content.
- Presence of stirrer in the emulsion tanks would vastly facilitate uniformity of emulsion and resultant superior rolling performance. Availability of electrical heating facility to maintain emulsion at 50-55°C is most beneficial for emulsion health and resultant rolling performance.

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### Typical Properties:

| Balmerol Aquaroll HI 20 (M)           |                    |
|---------------------------------------|--------------------|
| Properties                            | Aquaroll HI 20 (M) |
| Colour & Appearance @ 35°C            | Dark Brown Liquid  |
| Specific Gravity @ 30°C               | 0.90 - 0.92        |
| Kinematic Viscosity, cSt @ 40°C       | 45 - 55            |
| Acid Value, mg KOH/g, max             | 10                 |
| Saponification Value, mg KOH/g        | 120 - 160          |
| pH, 5% emulsion in distilled water    | 5.5 - 6.5          |
| Emulsion Stability Index, DMW, pH-6.5 | 0.70 - 80          |

### Health and Safety:

Balmerol Aquaroll HI 20 (M) 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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