

Balmerol® Aquaroll 632 PDP

High Performance Semi Synthetic Cold Rolling Oil

Technical Data Sheet

Product Description:

Balmerol Aquaroll 632 PDP is a semi-synthetic cold rolling oil. This product caters to the demands of modern 4/6-Hi CR mills operating at moderate to high speed in the range of 500 to 800 mpm. It's synergistic blend of synthetic esters with performance enhancing additive package provides desired lubricity / load bearing ability for thin gauge rolling at high speed and resistance to oxidation & microbial growth. This formulation package provides excellent gauge reduction characteristics, enhanced roll life and vastly improved emulsion life leading to direct scope of productivity improvement. 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.

Features & Benefits:

Balmerol Aquaroll 632 PDP 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 632 PDP is recommended to be used at an emulsion strength of 2-4%. The emulsion should be made with demineralised water with low chloride and sulphate content, with pH in the range of 6.0 to 7.5 depending on output gauge of strip.
- Facility for mechanical agitation of emulsion by stirrer, fully operational recirculation facility and electrical heating for maintaining the emulsion at 55 - 60 °C are required to be available. These would ensure good emulsion health & 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 632 PDP | |
|---|-------------------|
| Properties | Aquaroll 632 PDP |
| Colour & Appearance | Dark Brown liquid |
| Specific Gravity @ 30°C | 0.90 - 0.915 |
| Kinematic Viscosity, cSt @ 40°C | 45 - 55 |
| Acid Value, mg KOH/g, max | 10 |
| Saponification Value, mg KOH/g | 170 - 200 |
| pH, 5% emulsion in distilled water | 5 - 6 |
| E.S.I. of 5% emulsion in DM water @ 55° C | 0.60 - 0.70 |

Health and Safety:

Balmerol Aquaroll 632 PDP 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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