

Balmerol[®] Aquaroll 631 (PTE)

High Performance Cold Rolling Semi-Synthetic Oil

Product Description:

Balmerol Aquaroll 631(PTE) is a semi-synthetic Cold Rolling oil designed for modern 4-Hi / 6 Hi Cold Rolling mills operating at high speed and rolling thinner gauges. It is a synergistic blend of especially selected synthetic esters and performance enhancing additives package to provide desired lubricity, load bearing ability for thin gauge rolling at high speed, enhanced roll life, vastly improved emulsion life and high level of mill cleanliness.

Features & Benefits:

Balmerol Aquaroll 631 (PTE) has a unique combination of complex polymeric dispersants with nonionic emulsifiers which ensure:

- Controlled oil droplet size with a very narrow distribution range and shear stability
- Good iron fines removal property enabling excellent lubricity, high level of strip cleanliness and consistent performance over extended period of usage.
- Much reduced specific oil consumption also ensures savings to the user.

These properties provide a direct scope of productivity improvement.

Applications / Recommendations:

For best performance, Balmerol Aquaroll 631 (PTE) is recommended to be used at emulsion strength of 2 - 5%. The emulsion should be made with de-mineralized water with low chloride, total hardness and sulphate content.

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. These would ensure good emulsion health & rolling performance.



Technical Data Sheet





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Typical Properties:

Balmerol Aquaroll 631 (PTE)	
Properties	Aquaroll 631 (PTE)
Colour & Appearance	Brown Liquid
Kinematic Viscosity cst @ 40°C	45 - 55
Specific Gravity @ 30°C	0.900 - 0.920
Acid Value, mg KOH/g, max	10
Saponification Value, mg KOH/g	180 - 200
pH , 5% Emulsion In Distilled Water	4.5 - 6.5
Burn off Temperature(in $^{\circ}$ C) by TGA	475 Max

Health and Safety:

Balmerol Aquaroll 631 (PTE) 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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