



Balmerol® Aquaroll 432 NSL

High Performance Semi Synthetic Cold Rolling Oil

Technical Data Sheet

Product Description:

Balmerol Aquaroll 432 NSL is a high performance semi synthetic cold rolling oil. This product caters to the demands of modern 4-Hi CR mills operating at high speed. Its synergistic blend of synthetic esters with performance enhancing additives package provides desired lubricity and load bearing ability for thin gauge rolling at high speed and resistance to oxidation, microbial growth.

Features & Benefits:

Balmerol Aquaroll 432 NSL provides the following benefits:

- Outstanding inherent load bearing ability compared to mineral base product
- Enhanced roll and emulsion life
- 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 432 MSL is recommended to be used at an emulsion strength of 3 – 5%. The emulsion should preferably be made with water having low chloride, sulphate content and pH in the range of 5 - 6 depending on output gauge of strip.
- Use of mechanical stirrers and heating system in the emulsion tanks for maintaining the emulsion at 55 – 60 °C are preferable. These would ensure good emulsion health & rolling perforance.





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Typical Properties:

Balmerol Aquaroll 432 NSL	
Properties	Aquaroll 432 NSL
Colour & Appearance	Brown Liquid
Kinematic Viscosity cst @ 40°C	47 -55
Specific Gravity @ 30°C	0.90 - 0.92
Acid Value, mg KOH/g, max	10
Saponification Value, mg KOH/g	185 - 200
pH , 5% Emulsion In RO Water	5 - 6
ESI @ 60°C in RO water	0.45 - 0.60

Health and Safety:

Balmerol Aquaroll 432 NSL 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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