



**ALUMINUM ROLLING LUBRICANTS
MOTOROL ARL – 55/56/57**



Introduction:

MOTOROL Aluminum Rolling Lubricants (ARL) are produced from low sulphur petro products. They provide good cooling and lubrication during metal reduction operation with low evaporation loss.

Applications:

Being a specialized product, it is used as roll coolant and lubrication for aluminum during reduction (rolling) operation. It is normally compounded with anti-oxidant and also with fats, alcohol for attaining load bearing characteristics. Its application is in aluminum rolling mills.

MOTOROL ARL - 55 is mainly used in **foil to foil** reduction

MOTOROL ARL - 56 is used for **sheet to foil** reduction

MOTOROL ARL - 57 is used for **coil to sheet** reduction

Advantages:

- ◆ Low viscosity ensures proper washing of aluminum chips
- ◆ Low sulphur and low acidity
- ◆ Low aromatics
- ◆ Resist to brown staining on metal during annealing
- ◆ Low evaporation loss because of compact boiling range
- ◆ Compatible with load bearing additives like fats and alcohols
- ◆ Non- irritant and low ash content

Performance Standard:

Proprietary grade

Typical Specifications:

| Sr. No. | Characteristics | Test Methods | 55 | 56 | 57 |
|---------|---|--------------|------------|------------|------------|
| 1 | Colour | ASTM D 1500 | 0.0 | 0.0 | 0.0 |
| 2 | Kinematic Viscosity at 40 °C, cSt | ASTM D 445 | 1.5 | 2.3 | 2.5 |
| 3 | Flash point °C, Min | ASTM D 92 | 90 | 110 | 110 |
| 4 | Pour Point °C, Max | ASTM D 97 | - 6 | - 6 | - 6 |
| 5 | Boiling range: IBP °C FBP °C | ATM D 86 | 210 255 | 240 285 | 260 320 |
| 6 | Aluminum Stain Test 15 Minutes at 245°C | - | No Stain | No Stain | No Stain |

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request.

MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not Spill oils on the shop floor, discharge into drains ,ground or water sources.