

# Balmerol® Protoform ALWD 150

## Mineral Based Drawing Oil

Technical Data Sheet

### Product Description:

Balmerol Protoform ALWD 150 is a water immiscible drawing lubricant, consisting of high performance additives, which impart excellent lubrication effect.

### Features & Benefits:

Balmerol Protoform ALWD 150 is especially formulated to provide following benefits:

- Excellent surface finish
- Non staining to high grade Aluminium
- Less resinifying , that controls the viscosity pick up of the oil with use
- Excellent lubrication helps in maintaining the oil temperature at ambient, and causes low wear of the tool
- Easy filterability

### Applications / Recommendations:

- Balmerol Protoform ALWD 150 is predominantly used for wire and tube drawing of Aluminium.
- The residual oil on the workpiece is easily degreasable with alkaline cleaner or normal solvents.

### Typical Properties:

Balmerol Protoform ALWD 150	
Properties	Protoform ALWD 150
Appearance	Dark brown viscous oil
Density at 29.5 °C, gm/ml, ASTM D 1298	0.87 ± 0.30
Kinematic Viscosity, cSt @ 40°C, ASTM D 445	130 ± 10
Flash Point, °C, min, ASTM D 92	200
Neutralisation Value, mg KOH/g, max, ASTM D 974	1
Copper Strip corrosion@ 100° C, 3 hrs, ASTM D 130	1a

### Health and Safety:

Balmerol Protoform ALWD 150 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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