

Balmerol[®] Protoform BD 220

Heavy Duty Forming Oil

Technical Data Sheet

Product Description:

Balmerol Protoform BD 220 is a high performance neat oil, composed of active EP agents. Balmerol Protoform BD 220 is specially designed for severe operations like, Blanking, Deep Drawing and Drawing of sheet metal. Balmerol Protoform BD 220 offers adequate lubrication for the gliding surfaces

Features & Benefits:

Balmerol Protoform BD 120 is especially formulated to provide following benefits:

- Good Surface Finish
- Withstand heavy load
- Extended Tool life
- Good corrosion protection
- Low residues , easy to clean with Industrial cleaners or solvents
- Operator Friendly

Applications / Recommendations:

- Recommended for all grades of steel.
- Used for Blanking, Fine Blanking, Deep Drawing and steel wire drawing.
- Can be diluted with mineral oil or solvent to stamp or blank thinner sheet thickness.
- Can be applied by brushing, rolling, spraying.

Typical Properties:

Balmerol Protoform BD 220	
Properties	Protoform BD 220
Appearance	Clear Amber oil
Density at 29.5 °C, gm/ml, ASTM D 1298	1.20 ± 0.10
Kinematic Viscosity, cSt @ 40°C, ASTM D 445	220 ± 20
Flash Point, °C, min, ASTM D 92	180
Neutralisation Value, mg KOH/g, max, ASTM D 974	2
Copper Strip corrosion@ 100° C, 3 hrs, ASTM D 130	4
4 Ball Weld Load, Kgs, min, ASTM D 2783	400

Health and Safety:

Balmerol Protoform BD 220 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:

Balmer Lawrie & Co. Ltd.
SBU: Greases & Lubricants (G&L) Division
P- 43, Hide Road Extension
Kolkata: 700088
www.balmerlawrie.com