

Accurately together...

**petroyağ**  
LUBRICANTS

## MORGOİL BR SERIES

### Description

**MORGOİL BR SERIES** oils are conceived and tailored to meet the requirements of the Morgan Construction Company for its oil-film, roll-neck(Morgoil) bearings installed in line with aluminum cold rolling mills. They are high quality lubricating oils for circulating systems that require a long-term lubricant. Special base stocks provide excellent lubrication and stability properties, and carefully selected inhibitors control rusting, oxidation, foaming and ease of water separation as requires by the ``perfect demulsibility`` requirement for this type of bearings. All the oil components have been chosen to assure a stain-free operation even at relatively high levels of contamination of the rolling oil.

### Properties / Advantages

- Excellent demulsibility for ready separation from water.
- Very high lubricity and film strength to minimize friction and wear even with shock loads. .
- Good fluidity in cold weather by virtue of the low pour point.
- High viscosity index.
- Minimized foaming and ensured rapid release of entrained air.
- High thermal and oxidation stability to resist gumming, sludging and metal surface staining.
- Non corrosive to steel, aluminum, copper and bronze.
- Excellent protection against rust and corrosion.
- Long service life.

### Technical Properties

| Property                                | Test Method | 100      | 150      | 220      | 320      | 460      |
|---|-------------|----------|----------|----------|----------|----------|
| Odor                                    | -           | Typical  | Typical  | Typical  | Typical  | Typical  |
| Appearance                              | ASTM 4176-1 | C&B      | C&B      | C&B      | C&B      | C&B      |
| Density at 15 °C ,g/cm <sup>3</sup>     | ASTM D4052  | 0.860    | 0.862    | 0.860    | 0.860    | 0.870    |
| Viscosity at 40 °C ,mm <sup>2</sup> /s  | ASTM D445   | 100      | 150      | 220      | 300      | 460      |
| Viscosity at 100 °C, mm <sup>2</sup> /s | ASTM D445   | 15,4     | 17.5     | 27,3     | 39,2     | 51,2     |
| Viscosity index                         | ASTM D2270  | 157      | 128      | 158      | 157      | 157      |
| Flash Point, COC , °C                   | ASTM D92    | 172      | 172      | 172      | 175      | 178      |
| Pour Point, °C                          | ASTM D97    | - 24     | -24      | - 18     | - 18     | - 18     |
| Sulfated Ash, %wt.                      | ASTM D2622  | Nil      | Nil      | Nil      | Nil      | Nil      |
| Sulfur, %wt.                            | ASTM D2622  | Nil      | Nil      | Nil      | Nil      | Nil      |
| Neutralization No, mg KOH/gr            | ASTM D 974  | 0,16     | 0,18     | 0,18     | 0,15     | 0,17     |
| Copper Corrosion test A3                | -           | 1 - 50   | 1 - 50   | 1 - 50   | 1 - 50   | 1 - 50   |
| Water content, %                        | -           | < 0,02   | < 0.02   | < 0,02   | < 0,02   | < 0,02   |
| Solid residue, %                        | -           | Nil      | Nil      | Nil      | Nil      | Nil      |
| Al stain test, 300 °C, 1 h              | -           | No stain | No stain | No stain | No stain | No stain |

*\* The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modification is reserved.*

### Health & Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet.

### Packaging

170 kg drum, 850 kg IBC.

\*Revision Date/No:27.10.2011/02