

CARTER ALS



Lubrication



Low staining lubricant for enclosed gears.

APPLICATIONS

- **CARTER ALS** has been specially designed for lubricating enclosed gears:
 - level and spur gears
 - bearing and gear coupling
 - worm gears.
- **CARTER ALS** is designed for use in systems of aluminium rolling mills when a contamination of the rolling fluids with a conventional lubricant could result in staining problems on the finished foils after annealing.

ADVANTAGES

Low staining

- **CARTER ALS** is formulated with non staining base oils and specific non staining additives.
- **CARTER ALS** provides the non staining performances required for the aluminium rolling mills. Using **CARTER ALS** reduces the potential of production rejects.
- **CARTER ALS** exhibits very good extreme pressure and anti wear properties for an efficient protection of lubricated parts. Its resistance to oxidation and degradation leads to longer oil service life.
- **CARTER ALS** has a good resistance to foaming and emulsion formation.
- **CARTER ALS** has been formulated for aluminium but, it can also be used for steel or yellow metal rolling mills.

| TYPICAL CHARACTERISTICS | METHODS | UNITS | CARTER ALS | |
|-------------------------|-------------|--------------------|------------|---------|
| | | | 220 | 460 |
| Color | ASTM D 1500 | - | 0.5 | 0.5 |
| Odor | - | - | Neutral | Neutral |
| Density at 15°C | ISO 3675 | kg/m ³ | 860 | 870 |
| Viscosity at 40°C | ISO 3104 | mm ² /s | 220 | 460 |
| Viscosity at 100°C | ISO 3104 | mm ² /s | 18 | 30 |
| Open cup flash point | ISO 2719 | °C | 140 | 160 |
| Pour point | ISO 3016 | °C | - 36 | - 33 |
| FZG | DIN 51354-2 | stage | > 13 | > 13 |

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
30-01-2009 (supersedes 08-03-2007)
CARTER ALS
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.