

# MOLYDUVAL

## Silo ISO 220



### Silicone Fluid

Silicone based fluid with unique properties because it is not a petroleum or organic chemistry. Products like this are the first, and still only, major class of polymers which are a product of inorganic chemistry. It has a remarkable diversity of uses - from brake fluids over lubrication to electronics. It makes excellent, safe, low-volatility heat transfer media, mould releases for rubber, plastic and glass parts, lubrication for most non-metal to metal contact and similar. It is found in hydraulic systems, inertial guidance systems, delicate timing and photographic devices, and as dielectric fluids in electronic components, such as capacitors and transformers. Also suitable for polish and other high-gloss water-repellent coatings, antifoams, grease and oil formulations (when mixed with thickeners, such as silica and bentonite). High performance greases can be produced by compounding the silicone fluid with extreme pressure additives, such as polytetrafluoroethylene or molybdenum disulphide.

### Properties

- \* exceptional lubricating and separating properties
- \* water refusing
- \* chemically inert to most materials like plastic and rubber
- \* high viscosity index
- \* non toxic
- \* wide temperature range
- \* Longer service life due to high thermal stability
- \* good oxidation resistance
- \* relative good compatible with many usually used sealants
- \* high flash point
- \* food grade - all components conform to USDA H1 or the FDA regulations for Lubricants in incidental food contact
- \* harmless
- \* low surface tension
- \* very good dielectric behaviour
- \* low steam pressure
- \* neutral to metal surfaces
- \* compatible with many seals and plastics
- \* tasteless
- \* high compressibility
- \* odor less

### Applications

- \* for assembly of O-rings
- \* for heat transmission
- \* as additive to care products, washing fluids, plastic cleaners
- \* as separating agent in welding
- \* as release agent for plastic and rubber molds, foams, and latex
- \* as sliding agent to plastics, in printing or textile industry
- \* as sliding agent for fibres, for increasing sliding properties of sew fibres, reduces danger of wresting
- \* as release agent for moulded rubber parts, urethanes, glues, cellulose and derivatives, vinyl's and compounds
- \* as heat transfer fluid
- \* for sealing of connections in presence of solvents or their vapors
- \* as a lubricant for mixers and conveyors
- \* as lubricant for rubber, latex, and plastics
- \* as water repellent agent for shoes, gloves or the roof of convertibles
- \* incorporated as additives into plastics and rubbers as process and release aids

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence.

# MOLYDUVAL

## Silo ISO 220

- \* incorporated as additives into coatings for flow and level control
- \* incorporated as additives into process streams as anti-foams
- \* as power transmission and damping fluid

### Technical Datas

Color		transparent
Density 20°C	kg/m <sup>3</sup>	970
Viscosity 40°C	mm <sup>2</sup> /s	220
Viscosity 100°C	mm <sup>2</sup> /s	95
Pour Point	°C	-50
Refractive Index 25°C		1,404
Dielectric Constant		2,7
Dielectric Strength	kV	30
Flash Point	°C	300
Heat Conductivity 20°C	W/(K·m)	0,16
Heat Extension Coefficient	10E-3·KE-1	0,96
Surface Tension 20°C	mN/m	22
Specific resistance	Ohm cm	10E14

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence.