



CHALLOILS Series UTENSIL

Oil for slideways

Product Description:

The **UTENSIL** series are formulated with mineral oils refined paraffinic solvent, and selected additives can provide adequate adhesiveness and suitably modify the coefficient of friction. By virtue of the particular composition has an excellent demulsibility in respect of the emulsions and good compatibility with synthetic coatings of the sliding guides. The use of Util is essential to ensure effective lubrication of the sliding guides of the numerical control machine tools, machining centers, copying systems and in all those applications in which it is necessary that the movements of the workpiece and positioning of the tools be accurate and uniform. Excellent tribological characteristics, high adhesiveness and resistance of the lubricating film, optimum coefficient of friction, make it suitable for the lubrication of horizontal guides, vertical, rolling even in conditions of high loads and low speed of movement. Can also be employed in the movements of the lead screw-and-nut systems, heads port spindle, feed, speed changes.

Features and Benefits:

- Irregular movements of the slides even in presence of high loads and low speeds.
- Elimination of "stick-slip".
- Good adhesion that allows you to maintain a lubricant film even on vertical surfaces.
- Excellent demulsibility, which allows rapid and complete separation from the emulsion lubricant.
- Excellent protection against corrosion.
- Compatibility with sealing materials.

Specifications and Approval:

Exceeds requirements: **DIN 51502 CGLP, ISO-L-G (220), ISO-L-HG (32 e 68), CINCINNATI P53 (ISO VG 32), P47 (ISO VG 68), P50 (ISO VG 220)**

Typical properties: CHALLOILS Series UTENSIL

ISO Viscosity Grade	32	46	68	100	220
Viscosity ASTM D-445					
cSt @ 40°C	29 - 35	42 - 50	62 - 74	90 - 110	200 - 230
cSt @ 100°C	5 - 6	6,9 – 7,9	8,1 – 9,5	12 – 14,8	17,5 – 20,9
Viscosity Index ASTM D-2270	104	102	102	102	100
Density @ 15°C, Kg/l, ASTM D-1298	0,882	0,884	0,888	0,890	0,894

Health and Safety:

The data related to health, safety and environmental protection are provided in the material safety data sheets.

The above figures are those relating to normal manufacturing tolerances and do not constitute a specification.

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