

Product for metal processing by deformation – hot forging

ISO L-MHE

FAMKOVAL® TS 20

FAMKOVAL® TS 20 is product manufactured on the basis of thermally stable graphite and suitable additives that provide enduring extremely high pressures (EP), good anticorrosion protection and long-term stability of the dispersion.

ADVANTAGES

- Excellent cooling and lubricating properties,
- Good expansion properties,
- High thermal stability,
- Excellent anticorrosion protection,
- In all recommended dilutions, it allows working without creating smoke and evaporations that are harmful to the health of employees.

QUALITY LEVEL

ISO 6743-7, L-MHE,
ISO/TS 12927

APPLICATION

FAMKOVAL® TS 20:

- It is used for lubrication of dies of medium- and difficult-to-process materials and for manufacturing of complex shapes of forgings by hot deformation on forging presses and hammers
- It facilitates the deformation process, i.e. even distribution of the structure of the forging and at the same time reduces the number of badly made pieces,
- It reduces the downtime during work, due to the reduced number of forgings trapped within the engraving as well as the reduced number of tool replacement,
- It is applied as water dispersion which is prepared by pouring water evenly into lubricant concentrate while stirring intensively,
- Manner of coating can be: by brush, immersion or spraying,
- It is applied in thin homogeneous layer to prevent creation of residues that could possibly cause errors in shaping or interfering with the ejector functionality,
- The homogeneity of the dispersion between the two coatings is maintained by stirring

RECOMMENDED APPLICATION CONCENTRATIONS

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|--|-------------|
| - High-strength steel in severe deformations | 1:4 to 1:8 |
| - High strength steel in normal deformations | 1:6 to 1:12 |
| - Carbon steel in severe deformations | 1:6 to 1:12 |
| - Carbon steel in normal deformations | 1:12 |

TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	VALUE	METHODS
Appearance	-	Black viscous liquid	Visual

July, 2018

Density at 20°C	g/ml	1,170	EN ISO 3675
Graphite content	%	min 20	EN ISO 3251
Size of solid particles maximum (90%)	µm	4,1	-
Graphite carrier	-	water	-
Copper corrosion (100°/3h)	degree	1a	EN ISO 2160

STORAGE

Store in covered area. Do not store at elevated temperatures or in locations exposed to direct sunlight, nor at temperatures below 0°C.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

PACKING

Plastic containers of 20 L and tin drums of 180 kg.

Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.

