

BORTEX AL-135**ALUMINIUM WIRE DRAWING FLUID****Product Description**

BORTEX AL-135 is semi-synthetic cooling, rolling and wire drawing oil which is used for aluminum processing. It is formulated with special lubricants and additives and forms stable emulsions with water.

Application/Usage

It is specially developed for coarse and medium aluminium wire rod drawing operations. It can be successfully used in rod wire drawing of EC-aluminum but also high-tensile aluminum alloys.

As the surface of the drawn wire is very clean, BORTEX AL-135 is also suitable for the production of enamelled wire.

The usage concentrations according to the operations are stated below:

Wire Diameter(mm)	Concentration
12,0 – 2,0	% 10-25
9,5 – 1,4	% 10-25

The water to be used in the emulsion should have a Total Hardness of 5-15 °dH.

Advantages/Benefits

- Thanks to its special additives, it is resistant to high pressure and heat; thus it can be used successfully even under the most difficult conditions.
- Since it contains special additives, it protects the materials against corrosion for a long time.

- It provides long service life for the emulsion due to its resistance to microorganism production.
- In case of usage at recommended concentration ranges, it does not cause any harm to the machining tool paint and/or tool sealing and closure apparatus. It provides cleanliness of the machining tools and pipelines.
- Since its pH value adjusted it does not cause sensitivity or harm on the skin.
- It does not contain Nitrite and/or Phenol compounds.
- Due to excellent cooling and good lubricity abilities it provides extraordinary drawing performance,
- Good cleaning abilities and filterability ensure an outstanding performance in high demanding aluminum wire drawing processes.

Storage

Protect from direct sunlight and rain. Store in the original closed drums and in covered areas. Storage temperature must be between (+5)-(+40)°C.

Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet.

TECHNICAL PROPERTIES	TEST VALUES	TEST METHOD
Appearance	Brown, Clear	-
Emulsion Appearance (%25)	Milky white	-
pH (%25)	9,6	ASTM D 1287
Corrosion Test (5-10 °dH , %5)	0-0	DIN 51360/2
Refractometer Factor	0,9	El refraktometresi ile

"The above information is derived from our quality checks. Given values are typical of current production. While future production will conform to our specification, variations in these characteristics may occur. Quality Control Analysis Report for to learn properties of the product that is supplied can give. It does not relieve the purchaser from examining product upon delivery and gives no assurance of the product for any particular purpose. Due to continual product research and development, the information contained herein is subject to change without notification."

00.2013.09.19