



Magnesium Elektron

SERVICE & INNOVATION IN MAGNESIUM

Atomised Magnesium Powders

Datasheet : 345

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Atomised Magnesium Powders

GENERAL DESCRIPTION

Atomised powder is manufactured by melting minimum 99.8% purity magnesium and spraying the molten metal under the protection of an inert atmosphere. A spherical powder is produced which is then screened and blended to customer specifications. By-down products, ie powders which pass through a particular sieve are readily available.

Powders available in narrow particle size bands, as required by stringent military specifications, exhibit ELEKTRON's excellent size classification control.

Atomised powder is used in many applications because of the following unique characteristics:

SPHERICAL SHAPE gives an accurate and uniform size distribution.

SUPERIOR FLOW CHARACTERISTICS enable high percentages of atomised powder to be mixed with other materials and still retain good flowability and low viscosities.

SUPERIOR FLOW CONTROL is achieved with the uniform spherical shape of atomised powders.

HIGHER PACKING DENSITY reduces the size and tare weight of shipping containers.

INCREASED SAFETY due to smaller quantities of entrapped fine dust.

ELEKTRON's atomised magnesium powders are manufactured to the following military specifications: MIL-M-382C, MIL-P-14067B and Defence Standard 13-130/1. They can also, on request, be custom tailored in size to meet customers' own mesh specifications.

The typical use of atomised magnesium powders is in pyrotechnic devices, such as signal flares, fireworks, military illuminating and infrared countermeasure (IRCM) flares, propellants and powder metallurgy.



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