

## DATA SHEET

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# B-TECH RELEASE 820

**Release agent for high pressure die-casting of Aluminum alloys**

**DESCRIPTION**

B-TECH RELEASE 820 is a compound of polymers and synthetic lubricants in aqueous emulsion. It is used as a lubricating release agent in high pressure die-casting of Aluminium alloys.


**TECHNICAL DETAILS**


<i>Physical form:</i>	liquid	<i>Density (20°C):</i>	0.99 g/ml
<i>Colour:</i>	milky white	<i>Flammability:</i>	not flammable
<i>Odour:</i>	typical, mild	<i>Miscibility:</i>	miscible in water
<i>pH (pure):</i>	8.0		


**SPECIFICATIONS**

TEST	METHOD	STANDARD LIMITS
Appearance	Vis. (AO/1)	milky white liquid
pH (pure prod.)	Ind. strip (PM/2)	8.0 – 9.0
Chem-phys. stability	Centrif. A (SE/4)	creaming max 5% settling max 1%

**CHARACTERISTICS**


 B-TECH RELEASE 820 ensures a very high thermal resistance and an excellent filming capacity. It is suggested for general purpose and with centralized distribution piping.


 B-TECH RELEASE 820 is suitable even for the production of high weight castings or for castings with various thicknesses. It does not give build-up even in case of very low temperature moulds.

 The product has a low environmental impact and smokiness. It does not contain noxious substances such as solvents, alkyl phenols, boron and sulphur compounds.

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## HOW TO USE

 Dilute with automatic mixer, or pour the product into water: the blending is immediate and it is not necessary to shake the product during the use. Avoid dipping contaminated pipes into the tanks.

 The suggested dilution percentage is: 1.0% (1:100) to 2.0% (1:50) of the product weight in water.


The best usage dilution depends on the specific mold, on its range of temperatures and on other parameters. The right dilution ratio must be determined by means of tests.

Do not stir the diluted product. Pour the diluted product in the tanks by means of tubes fully dipped into the liquid. Do not blow air into the bulk.


 Apply the diluted product with manual or automatic spraying system.

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## STORAGE


 Avoid storage with exposure to direct sunlight. Do not store near heating sources. Store at temperatures below +40°C.

 Store at temperature above +5°C.

 Shelf life: not less than 12 months, in the original unopened packaging. Keep closed the containers in order to avoid water evaporation and contamination of the product. In case of prolonged storage (longer than 4 months), stir the product briefly in its original container before use.

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## PACKAGING

 Drums: 200 Kg Net weight  
Tanks: 1000 Kg Net weight (IBC)

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## FURTHER INFORMAT.

Like for all die lubricants of the CASTING series, the casts obtained with this product are "paintable". It is advisable, however, to carry out preventive tests on the castings produced in the specific application conditions.

For information regarding safety, transport and disposal, refer to the Material Safety Data Sheet of the product.

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The data in this technical information sheet correspond to the properties of the product at the time of the sale and with regard to the specified application. It is on the responsibility of the user to make sure that the product is suitable for the use to which he intends to destinate it.