

AluTreat[®]



Aluminium bath treatment for pressure and continuous casting

- Improved quality aluminium – bath contents are cleaner and more homogeneous
- Higher furnace capacity
- Long service life of the porous plugs



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The aluminium bath treatment for pressure and continuous casting can be used in casting furnaces of all makes and ensures the production of superior- quality aluminium.

Design

A porous fire and aluminium-resistant plug enclosed in a gastight enclosure is incorporated into the bottom of the furnace. Although the plugs are porous, the aluminium is unable to penetrate them. A gas supply pipe opens below the porous plugs. Cleaning gas from a regulation station from the gas supply pipe permeates the porous plugs and forms as fine bubbles on the hot side.

Advantages:

- Improved cleanliness and homogeneity of the bath contents
- Typical density index value: Approximately 1.5
- Inclusions (STIC) are reduced by approx. 80%
- Minimised temperature differences above the bath height
- Higher furnace capacity
- Excellent service life of the porous plugs
- Easy to retrofit – on any casting furnace

Superior quality aluminium

Argon is the most commonly used propellant gas. However, nitrogen may also be used as a cleaning gas if nitride formation (e.g. with magnesium) is not anticipated. The result is aluminium of a particularly high quality. Available as special equipment for chlorine gas.

Three operating modes

The result in the furnace is directly dependent on the volume of gas; during everyday activities we distinguish between three operating modes:

- Outgassing: Small volume of gas used to reduce hydrogen in the bath
- Flushing: Large volume of gas for the intensive cleaning of the bath
- Cleaning: High gas pressure for periodic cleaning of the bubble stones



1. Bath treatment with AluTreat[®]
2. Gas regulation cabinet
3. Bath treatment with AluTreat[®]

An overview of our industrial furnace products:

- MultiMelter[®]
- EcoMelter[®]
- Casting furnace GO
- Rotary drum furnace DKO
- Charging
- AluTreat[®]
- Mobile burner system TW

