

SILUTAL 10, 20, 30

FLUX FOR ALUMINIUM AND ITS ALLOYS

DESCRIPTION

SILUTAL 10, 20 and **30** are special fluxes used for modification of aluminium alloys with 9 to 13 % silicon.

SILUTAL 10 is a bright blue powder, while **SILUTAL 20** and **SILUTAL 30** are white powders.

ACTION

SILUTALS are used for grain refining in aluminium-silicon alloys close to the eutectic composition, and thus maximum values of mechanical properties are achieved.

SILUTALS react with aluminium liberating sodium, which reduces grit.

INSTRUCTIONS FOR USE

After the desired temperature of melt is achieved the melt is degassed with **DEGAZID**, and slag is then skimmed. On the surface of bath a needed amount of **SILUTAL** is powdered, it is left to melt, and then it is stirred with the metal bath for approximately 3 minutes. The following modification conditions are recommended:

3 kg **SILUTAL 10** per 100 kg alloy at temperatures 700 to 750°C,

3 kg **SILUTAL 20** per 100 kg alloy at temperatures 740 to 760°C,

2 kg **SILUTAL 30** per 100 kg alloy at temperatures above 750°C.

The melt after stirring is held 5 to 10 minutes, then we skim the slag.

PACKING

SILUTALS are packed in natron sacks with polyethylene bag inside at net 40 kg each, or by customer request

STORING AND TRANSPORT

SILUTALS must be kept in originally closed packaging in dry space at normal temperatures. Space must be appropriate for storage of toxic substances. It must not be stored together with acids.

SILUTALS can only be transported in closed transport spaces. According to the European regulation for international road transport, **SILUTAL** is a dangerous substance. It is classified in ADR Class 6, packing group III. Amount allowed to be carried by vehicles without ADR equipment is 333 kg max.

PROPERTIES

Flux	Chloride content	Moisture content
Silutal 10	35 to 39 %	max. 0,5 %
Silutal 20	37,5 to 41,5 %	max. 0,5 %
Silutal 30	28,5 to 32,5 %	max. 0,5 %