

D-MAX GW ASX

Product code: 267601001

New generation anode stub coating for primary aluminium smelters

D-Max GW ASX is a water-based semi colloidal graphite dispersion specially formulated for use in primary aluminium smelting. It is formulated to improve the efficiency resulting in a lower voltage drop and lower carbon footprint. D-Max GW ASX contributes to increased safety of the rodding process in prebake carbon anode production.

D-Max GW ASX is supplied ready-for-use. This eliminates on-site dilution errors and thus ensures the best performance. It is dip applied to anode stubs in the rodding shop before they are fixed by cast iron to the anode blocks. D-Max GW ASX is then dried by gas burners or induction heaters to give a coating which extends stub life and withstands the smelting process to ensure that the cast iron Timble can be stripped away easily, and the stubs re-used.

Benefits & Advantages

- Better Cell efficiency (reported savings up to 8 mV per cell lower voltage drop compared to competitive products)
- Very stable dispersion resulting in
 - No settling down of the graphite in the dipping tank (no agitation needed)
 - Lower Energy Consumption (no agitation)
 - No manual cleaning of lumps of Graphite
 - Decreased consumption and less waste
- Smokeless
- Non-flammable
- Superb release properties in the Cast Iron Timble press resulting in
 - Very low number of stickers in the Cast Iron Timble press (reported 10 times less compared to competitive coatings)
 - Superb release properties in the Cast Iron Timble press resulting in substantial lower energy consumption
 - Very low deforming of the anode stubs resulting in lower operator labor
- Phosphate free
- Contains anti-corrosion properties

Applications

- Anode stub release
- Mould and press release
- Timble casting kroeses and chutes

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Typical Performance Data

Property	Value
Appearance	Grey/black fluid
Natural graphite	>50% purity
Specific gravity @ 20 °C, kg/m ³	1.09
Solid content, %	>13.5
Particle size	Semi colloidal
Shelf life, months	12
Diluents	Water

All performance data on this Technical Data Sheet are indicative only and can vary during production.

Application

Surfaces should be clean and dry. Additional pre-treatment is recommended.

Storage

- Store the products in a cool place, not in direct sunlight as this may overheat the product and impair its quality
- Do not allow product to freeze, as this will damage the stability of dispersion.
- Always tightly reseal the container to prevent evaporation or contamination.
- Always use clean equipment for mixing and holding the diluted product, to prevent contamination of the product
- Always use the lowest batch number first (first in first out), and note shelf life of the product

Quality control

Control of the incoming materials, to ensure that the quality has not been impaired during transport. Main properties are stability (microscopic inspection to control if the graphite has flocculated), that it has not been attacked by bacteria (visual inspection, odour and pH control), and damaged containers (visual inspection)

Control product has not been attacked by bacteria (bad odour and pH), especially after long production stops, weekends and holidays.

Pre-mixing

The stability of the dispersion does not require mixing before use. It is however possible that after a longer period of storage some particles have settled down. If this happened the particles can be easily stirred back into the dispersion inside the original container using a standard liquid mixer.

Dilution

The product is ready to use and must not be diluted, when diluted the dispersion is losing it's unique characteristics and properties.