

Lining Material Series



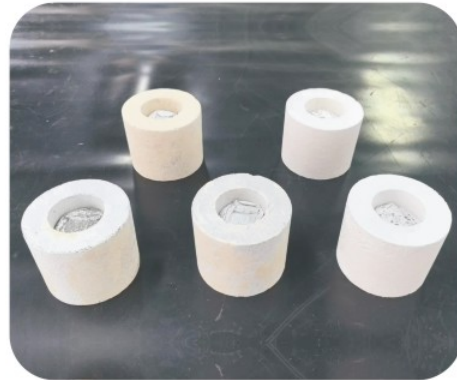
I. Application Scope

Can be made into online degassing, deep bed filtration, cartridge filtration, plate-type filter boxes, launder linings, hot top accessories, flow control products, etc. The produced products are applied to various aluminum alloy production lines.

II. Material Classification

Material classification: High fused silica 140 material, high fused silica 1.4 material, high fused silica 1.9 material, high fused silica 2.0 material, high fused silica 2.1 material, high fused silica 2.2 material, high fused silica 2.3 material, high fused silica 2.6 material, high fused silica 3.2 material, aluminum-silicon materials, fiber materials, etc.

Among them, products made of high fused silica 2.2 materials are mainly applied to the production lines of aluminum-lithium alloys, high-purity aluminum alloys, high-magnesium aluminum alloys and products with special production processes.



Composition Analysis of High-Purity Aluminum Immersion Experiment

| Soaking time/h | GDMS detection | | | | | | | | | | | | | |
|----------------|----------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|-------|
| | Fe/ppm | si/ppm | Cu/ppm | Ca/ppm | Zn/ppm | B/ppm | V/ppm | Cr/ppm | Na/ppm | Mg/ppm | Ni/ppm | Mn/ppm | Ti/ppm | p/ppm |
| 91238 577 | 0.32 | 1.1 | 0.38 | <0.05 | 0.036 | <0.05 | 0.066 | 0.13 | 0.02 | 0.3 | 0.14 | 0.015 | 0.2 | 0.15 |
| 23062 8A1-1 | 0.54 | 1.8 | 0.32 | <0.05 | 0.14 | 0.067 | 0.068 | 0.16 | 0.22 | 0.26 | 0.2 | 0.014 | 0.25 | 0.13 |
| 23062 8A1-4 | 0.47 | 2.6 | 0.29 | <0.05 | 0.14 | 0.064 | 0.072 | 0.15 | 0.066 | 0.17 | 0.16 | 0.012 | 0.24 | 0.12 |
| 23062 8B1-1 | 0.46 | 1.4 | 0.27 | <0.05 | 0.09 | 0.073 | 0.069 | 0.15 | 0.048 | 0.22 | 0.13 | 0.014 | 0.25 | 0.12 |
| 23062 8B1-4 | 0.49 | 1.6 | 0.33 | <0.05 | 0.06 | 0.062 | 0.079 | 0.17 | 0.039 | 0.22 | 0.15 | 0.012 | 0.26 | 0.16 |

Note: As time goes by, the Si element in 230628A1-1 and 230628A1-4 increases significantly, while the Si element in 230628B1-1 and 230628B1-4 increases less.

III. Application Cases

Case 1: The above picture shows a photo of another manufacturer's filter box after 1 month of use. The following picture shows a photo of high fused silica 2.2 material after 3 months of use.



Case 2: The left picture is a photo of another manufacturer's product after 1 casting cycle of use. The right picture is a photo of High fused silica 2.2 material after 3 consecutive casting cycles of use.



Coating Series

Refractory BN Coating

Model: Dope-BN30

Specification: 5kg/barrel, 20kg/box, or packaged as required.

Performance and use: Apply to the surface of the Launder, Filter Box, Caster Tip and Hot Top Casting functional materials that are in contact with aluminum liquid. Made of high-purity BN raw materials, it effectively prevents the functional materials from sticking to aluminum.



Boron Nitride Coating



1:4 Uniform Dilution



No Aluminum Adhesion Effect After 3 Casting Cycles



Insulation Mud (Repair Agent)

Insulation Mud (Repair Agent)

Model: Fire-MR

Specification: Order Quantity: 5kg/barrel, 20kg/box, or packaged according to customer requirements.

Performance and Application: Fire-MR refractory mortar is used for making or repairing.

