



DESCRIPTION

DDS is a type of coating for auxiliar uses on smelters and casting process.

It's been develop based on natural bone ash and chemically is constituted by tricalcium phosphate or calcium hydroxyapatite.



In addition, the product includes additives to enhance performance and improve thermal protection to the tools and parts in contact with molten metal.

CHEMICAL COMPOSITION

CaO	53 - 55%
P ₂ O ₅	40 - 43%
SiO ₂ FREE	< 1.0%
OTHER REFRACTORY ADDITIVES	3.4%
pH	6.0 - 9.0
Ca ₃ (PO ₄) ₂	93 - 98%
CaO / P ₂ O ₅	1.2 - 1.4



BENEFITS

- ✓ Specialized product
 - Specific granulometry curve
- ✓ High resistance to thermal shock
 - Good insulating properties
 - Protect pieces and parts in touch with melted metal
- ✓ Easy to use
 - Can be applied manually

PHYSICAL PROPERTIES

APPEARANCE	White powder
APPARENT DENSITY	0.9 - 1.2 g/cm ³
ABSOLUTE DENSITY	2.6 - 2.8 g/cm ³
CALCINATION LOSSES	< 1.10%
HUMIDITY	< 1.0%
GRANULOMETRY	95% < mesh 325

SAFETY

- Inert
- Innocuous
- Nontoxic
- Nonflammable

PACKING

- Bag or sack 25kg (55 lb)
- 1-ton pallets
- Fiber drum (100 kg)

APPLICATIONS

- Auxiliary uses at smelter processes (e.g. scoops, launders, tools or surfaces)
- Copper parts and pieces in contact with molten metal
- Fire refined bars casting