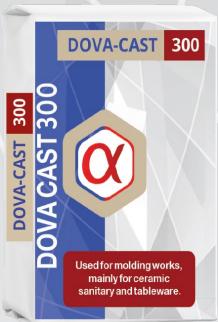
**Technical Data Sheet (TDS)** 





Used for molding works, mainly for ceramic sanitary and tableware.

### Alpho Gypsum

**DOVA CAST 300** is a fine plaster consisting of high purity natural gypsum. CaSO4 · ½ H2O is the main component of the DOVA CAST 300 powder; It is used for molding works, mainly for ceramic sanitary and tableware.

#### **FEATURES**

- Multicasting plaster
- Excellent strength
- Controlled expansion
- Easy to use
- High hardness
- 60-90 cycles

#### **Applications**

- Molding and casting
- Sanitary-ware
- Status

SPECS	VALUE	ASTM STANDARD	BS EN STANDARD
		C472/471	13279
Chemical composition	CaSo4 . 1/2 H2o		
Insoluble residue on sieves 60µm	< 0.5 %		
Finesse on 150 µm	0%	0-0.3	
Resistance to Compression	≥ 12.5 Mpa	>12	>6
Resistance to	≥ 12.5 MPa	>12	>6
Resistance to Bending	≥ 4.5 MPa	-	>1
Bulk density	680 - 720 kg/m³	-	-
Water/Gypsum Ratio	70-100 %	VICAT METHOD	METHOD (4.3.2)
Initial setting time	12-17 minutes	-	KNIFE METHOD (4.4.1)
Final setting time	25-35 minutes	-	KNIFE METHOD (4.4.1)
Fluidity	16.5 - 20 cm	-	BY DISPERSAL METHOD (4-3-2)
Water absorption	30 - 40 %	-	-

#### **STANDARDS**

- ASTM C59/59 M
- BS EN 13279-1
- Iso 9001:2015









### Alpho Gypsum

#### MIXING

- 1. Mixing Ratio: Weigh the necessary quantities of gypsum and water as mentioned in the TDS. Any changes of quantities will affect the characteristics of the mold (Absorption capacity, hardness, setting time expansion).
- 2. Water: Use only clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mold.
- 3. Spreading: Spread the gypsum between 1 to 3 minutes on the entire surface of the water.
- 4. Absorption: Leave the mixture for 1-2 minutes before the mixing phase.
- 5. Mixing: use mechanical blending (three blade mixer, diameter of blade ¼ to 1/3 x height of the mixing bucket), at a low speed (avoid high Speed, since mixing too quick will produce a heterogeneous mixture and low-quality mold). Mixing time should not be less than 1 minute.
- 6. Mixture is ready to use.
- 7. The DOVA CAST 300mold can be used around 70 times for casting.

#### **STORAGE**

DOVA CAST 300must be stored in its original pack.

- Avoid direct contact with the ground to protect it against humidity.
- Expiry date within 12 months from the production date indicated on the bag.
- Inappropriate storage or exceeding the expiry date may deteriorate the properties of the product.









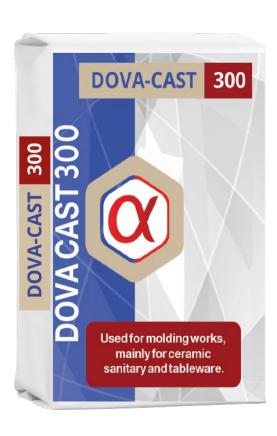
### Alpho Gypsum

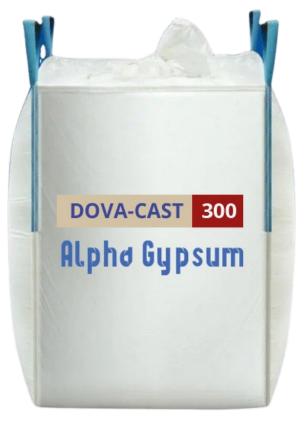
#### SAFETY RECOMMENDATIONS

- Product is not classified as hazardous.
- ☐ It is recommended to use safety gloves, mask and glasses when apply the product to prevent the risk of inhalation, irritation of the skin and eyes.

#### **Packaging**

- 25 kg paper bags
- ☐ Big-Bags (1/1.25 MT)













300

### Alpho Gypsum



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