

Technical Data Sheet Probond 30[®]

Probond 30 is a low viscosity activated sodium bentonite exhibiting variable dry particle size

<u>Functional use:</u> general purpose is green sand mold additive. Probond 30 imparts excellent green and hot compression strengths to molding sand where high temperature pouring or firing occurs. This is applicable to both the foundry and refractory industries.

Purity: Hydrous silicate of alumina comprised principally of the clay mineral montmorillonite. Montmorillonite content 75% minimum. Contains small portions of feldspar biotite, selenite, etc.

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Foundry Properties

	Moisture (%)	Compact (%)	GCS (N/cm2)	DCS (N/cm2)	Wet Tensile (N/cm2)	Permeability No.	MB. (meq/100 g.)	Free Swell (ml/2 g.)
Average NC*	2.16	40	12.63	26.50	0.444	161.33	94	20
Average C*	2.62	40	10.07	22.07	0.238	122.33	84	6

NC = Non Calcine (Fresh Bentonite)

C = Calcine (Fired Bentonite at 600C for 1 hr.)

The foundry properties was tested with sand grain fineness no. 60-65 and 7% bentonite according to AFS standard

OSA16 Issued No.6

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