

Alpha Star®

PRODUCT DATA

Description:

Alpha Star is a homogeneous calcined high alumina aggregate. Specially selected high purity ores are custom processed and calcined to obtain a dense, volume stable aggregate with low apparent porosity. The combination of lower impurities and unique processing results in a consistent high quality aggregate.

Applications:

Alpha Star is an ideal aggregate to resist abrasion and hot metal erosion in blast furnace troughs and ladles. Its consistent physical and chemical properties make it ideally suited for low cement, ultra low cement castable and plastic refractory applications.

Chemical Analysis (%):	Typical	Specification
Al ₂ O ₃	90.3	89.0 (min.)
SiO ₂	3.9	--
Fe ₂ O ₃	1.4	2.2 (max.)
TiO ₂	4.0	4.4 (max.)
CaO	0.12	--
MgO	0.13	--
Na ₂ O	0.03	--
K ₂ O	0.23	0.6 (max. alkalis)

Physical Properties:

Bulk Density (g/cc)	3.50	3.40 (min.)
% Apparent Porosity	2.70	--
% Moisture	0.10	0.50 (max.)

Sizing Specifications Available from Newell, WV and China (% Retained)

USS Sieve	1 1/2"	1"	3/4"	1/2"	3/8"	0.265	1/4"	4m	6m	8m	PAN*
Grade	37.50mm	25.00mm	19.00mm	12.50mm	9.50mm	6.70mm	6.35mm	4.75mm	3.35mm	.2.36mm	
1 1/2" x 1/2"	0-2	10-32	35-75		10-35						0-3
3/4" x 3		0	10-30	35-65	10-30	0-15					0-5
2 1/2" x 3					0-2	20-50	25-55	10-30	0-7		0-2

*PAN designates the percentage of material passing the last reported screen for each size

To Order:

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