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Technical Data Sheet

Alumina-Carbon Scrap

Slide gate plates, ladle shrouds and nozzles, sorted and graded

Description

Alumina-carbon scrap is recycled alumina-graphite refractory recovered from used slide gate plates, ladle shrouds, nozzles and stoppers of continuous casting. It is hand-sorted and crushed to remove steel, slag and glaze, and keeps the useful alumina (about 65–80% Al_2O_3) and carbon (5–15%) content, which makes it an economical raw material for new alumina-carbon products, castables and ramming masses. Ochnology Solution Pvt. Ltd. is a processor and supplier of recycled alumina-carbon scrap and other sorted refractory scrap for steel plants and refractory makers in India and worldwide, with a lab analysis for each lot.

Typical Applications

- Raw material for alumina-carbon and alumina-graphite refractories
- Aggregate for ladle castables and ramming mixes
- Recycled alumina and carbon source for steel plant consumables

Specification

S. No.	Parameter	Specification	Test Method
1	**Alumina (Al_2O_3), %**	65 – 80	XRF / chemical analysis
2	**Fixed Carbon (C), %**	5 – 15	Combustion, infrared
3	**Silicon Dioxide (SiO_2), %**	≤ 12	XRF / chemical analysis
4	**Zirconia (ZrO_2), %**	≤ 6.0	XRF / chemical analysis
5	**Moisture, %**	≤ 1.0	Gravimetric (drying)
6	**Size, mm**	10 – 60	Sieve analysis
7	**Foreign Matter (steel, slag)**	Free	Visual inspection

General Properties

Product	Recycled alumina-carbon scrap (slide gate plates, shrouds, nozzles)
Form	Hard, dark grey to black lumps
Packing	1 MT jumbo bags or bulk in containers

Handling and Storage

- Store on a clean, dry area, covered from rain; carbon-bonded material oxidises when kept wet or hot
- Keep different grades separate; avoid mixing with steel pieces
- For safety information, refer to the accompanying Safety Data Sheet (SDS)

Disclaimer: The information in this document is typical and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own evaluation under end-use conditions before use.