

HIGH-DENSITY COUNTERWEIGHT IRON SAND

Quality Grade: Export First-Class A1 | Compliance: FEPA 42-1:2006 / JIS R6001 / ISO 8486

1. TYPICAL CHEMICAL COMPOSITION (%)

Element	Fe (Total)	C	Si	Mn	S + P
Specification	· 85.0 - 92.0 %	1.5 - 3.5 %	1.0 - 2.0 %	0.5 - 1.0 %	· 0.15 %

2. PHYSICAL & MECHANICAL PROPERTIES

Property	True Specific Gravity	Bulk (Poured) Density	Apparent Density	Hardness
Specification	6.8 - 7.4 g/cm ³	3.8 - 4.8 g/cm ³	4.2 - 4.8 g/cm ³	HRC 40 - 55

3. AVAILABLE SIZES & GRIT CLASSIFICATION

- Granular Fractions: 0.5 - 1.5 mm, 1.0 - 3.0 mm, 2.0 - 4.0 mm, 3.0 - 5.0 mm.
- Custom bulk density tailored from 3.8 to 4.8 g/cm³ upon request.

4. PRIMARY INDUSTRIAL APPLICATIONS

- Counterweight ballast for heavy excavators, mobile cranes, loaders, and maritime vessels.
- High-density concrete ballast for offshore wind turbine foundations and oil drilling rigs.
- Radiation shielding heavy concrete aggregates for nuclear power plants and medical imaging rooms.

5. PACKAGING, CERTIFICATION & EXPORT LOGISTICS

- 25 kg woven bags inside 1 MT or 1.25 MT jumbo ton bags.
- Direct bulk vessel or container loading with desiccants.

MANUFACTURER QUALITY STATEMENT & EXPORT GUARANTEE:

Every batch undergoes rigorous XRF chemical analysis, bulk density and laser particle sizing before dispatch.

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QC APPROVED

ISO 9001:2015