



Paradise Minerals

One of the biggest manufacturer and exporter of Minerals

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FERRO MANGANESE SLAG

Safety Data Sheet (SDS)

Industrial Grade for Submerged Arc Welding (SAW) Flux Manufacturing

Product Name: Ferro Manganese Slag

Chemical Nature: By-product of Ferro Manganese Alloy Production

Appearance: Dark Grey to Black Granules/Powder

CAS No.: Mixture (Not Applicable)

UN Number: Not Regulated

Product Overview

Paradise Minerals supplies **high-quality Ferro Manganese Slag**, specially processed for **Submerged Arc Welding (SAW) Flux** manufacturing. The material is known for its excellent manganese content, controlled particle size, and consistent chemical composition, making it an ideal raw material for premium welding flux formulations.

Key Features

- ✓ High Manganese Content
- ✓ Low Moisture
- ✓ Uniform Particle Size
- ✓ Excellent Chemical Stability
- ✓ Consistent Batch Quality

- ✓ Suitable for SAW Flux Manufacturing
- ✓ Bulk Supply Available

Typical Applications

- Submerged Arc Welding (SAW) Flux
- Welding Consumables
- Metallurgical Industry
- Steel Manufacturing
- Foundries
- Mineral Processing
- Industrial Flux Formulations

Typical Physical Properties

Property	Value
Appearance	Dark Grey to Black
Physical Form	Granules / Powder
Odour	Odourless
Solubility	Insoluble in Water
Bulk Density	1.8–2.5 g/cm ³ (Approx.)
Moisture	Low
Stability	Stable Under Normal Conditions

Typical Chemical Composition*

Component	Typical Range (%)
Manganese (Mn)	20–35
Silicon Dioxide (SiO ₂)	20–35
Calcium Oxide (CaO)	10–25
Aluminium Oxide (Al ₂ O ₃)	5–15
Magnesium Oxide (MgO)	2–10
Iron (Fe)	Balance

***Values are indicative and may vary depending on the production batch.**

Safety Information

Ferro Manganese Slag is generally **not classified as hazardous** under normal industrial handling conditions. Dust generated during handling or grinding may cause temporary irritation to the eyes, skin, and respiratory system.

First Aid Measures

Eye Contact

Flush immediately with clean water for at least 15 minutes.

Skin Contact

Wash thoroughly with soap and water.

Inhalation

Move the affected person to fresh air. Seek medical attention if symptoms persist.

Ingestion

Rinse mouth with water. Obtain medical advice if discomfort occurs.

Fire Fighting Measures

- Non-Flammable Material
- Suitable Extinguishing Media:
 - Water Spray
 - Foam
 - Dry Chemical Powder
 - Carbon Dioxide (CO₂)

Handling & Storage

- Avoid generating excessive dust.
- Use adequate ventilation during handling.
- Store in a cool, dry, and well-ventilated area.
- Protect from moisture and contamination.
- Keep containers or bags tightly closed when not in use.

Personal Protective Equipment (PPE)

- Safety Goggles
- Dust Mask / N95 Respirator
- Protective Gloves
- Safety Shoes
- Protective Clothing (Recommended)

Stability & Reactivity

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid:

- Excessive dust generation

- Contact with strong acids

Hazardous Decomposition Products:

No hazardous decomposition products under normal conditions.

Environmental Information

- Avoid uncontrolled release of dust into the environment.
- Collect spilled material for recycling or disposal.
- Dispose of waste according to applicable local regulations.

Transportation Information

Not classified as dangerous goods under:

- IMDG Code
- ADR
- IATA
- RID

Why Choose Paradise Minerals?

- ✓ Premium Quality Industrial Minerals
- ✓ Consistent Chemical Composition
- ✓ Reliable Bulk Supply
- ✓ Custom Particle Size Available
- ✓ Strict Quality Control
- ✓ Competitive Pricing
- ✓ Trusted Supplier Since 1981