



Material: BLASTING GRIT MATERIAL (ISO 1126-5)

MATERIAL SAFETY DATA SHEET (MSDS)

Section I. Product Identification

Material chemical name:	FeNi-ERF slag (FeNi production)
Commercial names or synonyms:	Blasting Grit Material
Chemical Family:	Complex silica salts / No Chemical Formula
Main uses:	Sandblasting, ceramic industry, non-reinforced concrete, anti-slippery road paving, innovative construction material

Distributor:

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Section II. Composition and information on ingredients

Composition (typical analysis in weight %):

SiO₂:	37.90
FeO:	23.69
Al₂O₃:	7.61
MgO:	7.48
CaO:	5.59
Fe₂O₃:	39.54
Cr₂O₃:	0.58 mg/kg
S:	<0.10
Nichel:	40 mg / kg
Fe (total):	39.54

Nr CAS: 69012-29-9

Nr. EINECS: 273-729-7

Section III. Hazards identification

General:

The exposure to FeNi-ERF slag does not cause any known health or environmental hazards, under normal handling and use. The properties of FeNi-ERF slags are usually very different from those of its constituent elements and thus the hazard of a slag cannot be simply related to the concentration of a hazardous element in it. Both animal and epidemiological studies indicate that FeNi-ERF slag does not present a possible cancer hazard.

Acute effects:

- **Inhalation:** None
- **Ingestion:** Not a normal route of entry
- **Skin:** May cause either contact dermatitis or skin irritation in sensitive individuals after prolonged exposure.
- **Eye:** May cause slight irritation from mechanical abrasion and existence of Cl ions on the surface.

Section IV. First-aid measures

- Inhalation:** Not anticipated
- Ingestion:** An unlikely route of entry due to product form
- Skin:** Flush water, wash with mild soap
- Eye:** Flush water, remove contacts if worn

Section V. Fire-fighting measures

FeNi-ERF slag does not present fire or explosion hazards. Fires involving FeNi-ERF slag may be extinguished by any means consistent with other substances involved.

Section VI. Accidental release measures

Appropriate measures should be taken in order to avoid spillage.

- Personal protection:** Wear recommended personal protective equipment.
- Procedure for cleaning:** Sweep up with a minimum of dusting and recollection.
Collection in a container e.g. mini bulk bag.

Section VII. Handling and storage

Use gloves to avoid prolonged skin contact if handling contents directly.

Section VIII. Exposure controls / Personal protection

General Precautions:	Good industrial hygiene should be followed. Avoid eye and skin contact.
Exposure Limit Values:	Not established.
Personal Protection:	Wear protective gloves, safety glasses and if dust is generated such that exposure is not maintained below recommended exposure limits, respiratory protection should be used.
Health Hazard Data:	Medical Conditions Generally Aggravated by Exposure: <ul style="list-style-type: none"> Chronic lung conditions may be aggravated by exposure to high concentrations of dust; Long-term dust inhalation may decrease the ability of the lungs to clear particulate matter which may cause shortness of breath and increased susceptibility to respiratory disease.

Section IX. Physical and chemical properties

Appearance:	Dark gray
Odour:	None
Physical state:	Solid particles
Liquidus temperature:	(approx.) 1,350°C
Boiling point:	(approx.) 2,875°C
Molecular weight:	1.7
Density:	(approx.) 1.7g/cm ³
Vapour pressure:	N/A
Vapour density:	N/A
Solubility:	Not soluble in water

Section X. Stability and reactivity

Chemical stability:	Stable
Incompatibility:	None
Hazardous decomposition products:	Cl-ions from the surface
Conditions to avoid:	None
Reactivity:	When FeNi-ERF slags dissolve in water Cl-ions are released

Section XI. Toxicological information

General:	Under normal handling and use of FeNi-ERF slags, no hazards are anticipated.
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Professional Blasting Materials

Acute effects:

- **Eye:** May cause irritation due to mechanical effects and Cl-ions release.
- **Skin:** Prolonged exposure may cause contact dermatitis or other allergic reactions especially in sensitive individuals because of Cl-ions release
- **Ingestion::** Not a normal route of entry.
- **Inhalation:** No hazards are anticipated.

Chronic effects:

FeNi-ERF slag does not present a possible cancer hazard.

Section XII. Ecological information

The concentration of all the metals analyzed in the TCLP test of the FeNi-ERF slag is one to four orders of magnitude lower than the US EPA toxicity limits and thus it is characterized as non toxic. The customer is responsible for the proper handling of the material after use, according to the specific regulations of the country it is imported in.

Take special precaution to note the potential hazards of the substrate, coatings or contamination that are removed by the use of our product. All Material Certifications and chemical analyses should be obtained before commencement of work.

Section XIII. Disposal consideration

Disposal is to be performed in compliance with all State Regulations.

Section XIV. Transport information

FeNi-ERF slag is regulated as inert, non-hazardous.

Section XV. Regulatory information

This product is classified as non-hazardous.

Section XVI. Other information

References:

United States Environmental Protection Agency: "Test methods for evaluating solid waste, Voluce IC: Laboratory manual physical / chemical methods"
(Washington, SW 846, 1986), 1311-1-1311-35.

Glossary:

CAS No.: Chemical Abstracts Service Number
EINECS No.: European Inventory of Existing Commercial Substances

Notice to reader

GRIT SABLARE has exercised reasonable care in the preparation of this information; however, the company assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequence of its use. Moreover, since regulatory standards and guideline recommendations change from time to time, there is no assurance that hazard classifications, exposure limits and other regulatory requirements reflected in this MSDS will be current at the time the MSDS is used.