



PRODUCT SAFETY CARD
EC Directive no. 92/32/CEE, 91/155/CEE
88/379/CEE, 93/112/CEE.

Card no. SS P1
Issue no 6 of 11.04.05

1. IDENTIFICATION OF THE PRODUCT/SUBSTANCE AND MANUFACTURER/DEALER

- A. Category Solid welding wire for gas-shielded arc welding (MIG, WIG)
- B. Name of product INEFIL - INEFIL NR - INEFIL 13.7 - INEFIL 19.12 - INEFIL 19.12 NR - INEFIL S4 - INEFIL S6 - INEFIL S2 - SPEEDFIL - INEFIL TITAN - INEFIL TITAN 10R - INEFIL TITAN 1BR - INETIG - INETIG S6 - INETIG 13.7 - INETIG 19.12 - INETIG S2.-
- C. Manufacturer and dealer INE Industria Nazionale Elettrodi S.p.A.
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2. COMPOSITION/INFORMATION ABOUT INGREDIENTS

Low-alloy welding wire (≤ 5% Cr; ≤ 1% Ni; ≤ 1% Co). No substances classifiable as toxic and/or noxious.

Fe	Iron	>	96 %
Mn	Manganese	=	1.0 + 2.0 %
Si	Silicon	=	0.5 + 1.2 %
Cu	Copper	<	0.5 %
Others		=	traces (max 0,3 %)

3. IDENTIFICATION OF DANGERS

The product is harmless as it is. Dangers when used:

- A. UV and infrared radiation, heat and noise generated by the electric arc
B. Fumes/Welding gases
C. Electric shocks (welding systems)

4. FIRST-AID MEASURES (DURING USE)

Respiratory tract	(fumes inhalation)	Bring the injured person to a ventilated place
Hands/skin	(burns, erythema)	Stop exposure
Eyes	(arc glow and/or fumes)	Dampen with fresh water
Should symptoms persist, consult a physician.		

5. FIRE PREVENTION MEASURES

No specific direction.
When using the product, keep flammable materials away from the work area.

6. MEASURES IN CASE OF ACCIDENTAL LEAKAGE

Not applicable.

7. HANDLING AND STORAGE

High-density solid product; avoid storing in unstable positions; handle with care; protect your hands and feet.

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION (DURING USE) *

Fumes and welding gases are developed when using the product; operate in a sufficiently ventilated place and/or install fumes extractors on the welding area.

Name	CAS no.	TLV mg/m ³
Mn and inorganic compounds (as Mn)	7439-96-5	0,2
Si oxides (as Si fumes)	69012-64-2	2
Fe oxides, powders and fumes (as Fe)	1309-37-1	5
Cu and inorganic compounds, metal and oxides (as Cu)	7440-50-8	0,1
Welding fumes (NOC)		5
ozone	10028-15-6	0,2
insoluble breathable particles (PNOC)		3



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Protective measures:

Respiratory tract	Avoid inhaling fumes/gases; be sure there is enough ventilation and/or fumes extractors are available
Ears	Use ear protectors and/or ear plugs
Hands	Use welding gauntlets
Eyes	Use helmets with suitable shielding glass
Skin	Cover exposed areas with appropriate clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

A.	State	solid
B.	Smell	smell-less
C.	Melting point	≅ 1600°C
D.	Boiling point	n. a.
E.	Flash point	n. a.
F.	Explosive properties	none
G.	Specific weight	5 + 8 g/cm ³
H.	Solubility	in strong acids

10. STABILITY AND REACTIVITY

A.	Stability	stable
B.	Reactivity	strong acids and bases

11. TOXICOLOGICAL INFORMATION

The product is not toxic as it is; when in use, refer to items 3 and 8.
Prolonged operation causes chronic effects to eyes, ears and respiratory tract.

12. ECOLOGICAL INFORMATION

Ferrous product; do not dispose of it in the environment (metal scrap). When used in combination with fumes extractors, treat the ensuing powders according to the provisions in force.

13. CONSIDERATIONS ON DISPOSAL

A.	Product: ferrous scrap, disposable as such, raw material suitable for melting.
B.	Cardboard and/or plastic packing: to be recycled according to the provisions in force.

14. INFORMATION ON TRANSPORTATION

High-density product, not dangerous according to the transport provisions in force.

15. INFORMATION ON REGULATIONS

A.	CE Classifications	n. a.
B.	Risk symbol	n. a.
C.	Risk phrases	n. a.

16. FURTHER INFORMATION

INE S.p.A. requires that all customers read this product card carefully so as to be informed about the risks implied in the use of the product, and provide any person involved with a copy of the same and/or adequate training on the use of the product.

This card has been drawn up in consideration of the directions contained in the information cards on welding fumes, published by the International Institute of Welding (IIW) and available in the Italian language at the Italian Institute of Welding, Genoa.

Possible national and local provisions are enforceable. The values which are shown in this document refer to security, so they are not warranted for product's technical characteristics.
They are based on the best present knowledges.

* Values taken from: *Threshold Limit Values and Biological Exposure Indices*, January 2005.