



## PRODUCT SAFETY CARD

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

Issue No: 7 of 18.5.2010

### 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 NIMO – INEFIL NIMOCR – INEFIL 100 – INEFIL 110 –  
INEFIL 120 - INEFIL 120 S1 – INEFIL 80 Ni 2 –  
INETIG NIMO – INETIG NIMOCR – INETIG 100 – INETIG 120 -  
INETIG 120 S1 – INETIG 80 Ni 2 – INETIG 110.
- C. Manufacturer and dealer INE Industria Nazionale Elettrodi S.p.A.  
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Tel. ++39 049-9481111 ,Fax ++39 049-9400249  
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### 2. COMPOSITION/INFORMATION ABOUT INGREDIENTS

Chromium, Nickel and Molybdenum low-alloy welding wire (  $\leq 5\%$  Cr;  $= 1\%$  Ni;  $\leq 1\%$  Co). **Nickel is present ( Ni max 3 % )**.

Fe	Iron	>	92 %	Ni	Nichel	=	0,5 + 3,0 %
Mn	Manganese	=	1,0 + 2,0	Cr	Chromium	=	0,0 + 0,5 %
Si	Silicon	=	0,5 + 1,2	Mo	Molybdenum	=	0,0 + 0,7 %
Cu	Copper	<	0,5	Others		=	traces (max 0,2 %)

### 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 <sup>3</sup>
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
Ni compounds ( as Ni-NOC )	7440-02-0	0,1
Cr, metal and inorganic compounds ( as Cr )	7440-47-3	0,5
Mo, insoluble compounds and metal ( as Mo )	7439-98-7	3
Cu, inorganic compounds, metal and oxides (as Cu)	7440-50-8	0,1
Welding fumes ( NOC )		
Ozone; heavy, moderate, light < 2 hours work	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	$\cong 1600^{\circ}\text{C}$
D.	Boiling point	n. a.
E.	Flash point	n. a.
F.	Explosive properties	none
G.	Specific weight	$5 + 8 \text{ g/cm}^3$
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.