

SCHEDA SICUREZZA (Medical Safety Data Sheet)

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Rif. ISO 9002 §/ /EN 46002 § 4.2

Modello 5/1 Revisione 1

Data 02/08/2018

MSDS G6-E.docx

SAFETY DATA SHEET

PRODUCTS RELATED TO THIS MSDS

RETENTION WIRE

IDENTIFICATION OF THE MATERIAL

Raw materials used are basically stainless steel alloy (Aisi 302 in wire form).

CHEMICAL COMPOSITION

1.	Up to	0.12% C
2.	Up to	17 - 19% Cr
3.	Up to	8 - 10% Ni
4.	Up to	2% Mn
5.	Up to	2% Si
6	Balance	Fe

PHYSICAL - CHEMICAL PROPERTIES AND FLAMMABILITY

Appearance	Solid (wire strip)	or	Colour	Silver-grey		
Odor	Odorless		Safety Data	None		
Ph-value	None					
Change of status						
Bowling point	n.a.		Melting point	1315 − 1535 °C		
Combustion rate	n.a.		Flammability	n.a.		
Ignition temperature	n.a.		Auto-ignition	n.a.		
			temperature			
Comburent capability	n.a.		Explosion limit	n.a.		
Vapor pressure	n.a.		Density at 20°	$7.5 - 8.5 \text{ g/cm}^3$		
Solubility and scattering features						
Soluble in water	Insoluble	•	Soluble in fat	Insoluble		
Scattering coefficient	None					

REACTIVITY

⇒ Stability and reactivity: stable and not reactive



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HAZARDS IDENTIFICATION

Information on toxicity: no toxic effects caused by the material in massive form or during the usual orthodontic process have been noticed.

Possibile hazards during the working process:

- ⇒ Effects of overexposure: inhalation is very serious. A prolonged excessive exposition to dust, mist and fumes of this alloy may contribute to chronic respiratory ailments.
- ⇒ **Possibile cancer hazard**: Nickel is treated as a potential agent, being included in the NTP and IARC lists. Some scientific studies have found an excessive incidence of cancer of the respiratory tract among workers involved in certain steps of nickel refining processes. However, several studies on workers exposed to various forms of nickel and its compounds have not shown any increased risk of cancer.

According to the Directive 67/548/EEC all products with a minimum Nickel content of 1% are classified in the same way as suspect carcinogen (category 3) and irritating for skin. Products which these sheets refer to, have form of massive metal alloy, therefore nickel cannot develop as possible hazardous material. No toxic effects caused by the material in massive form or during the normal orthodontic practices have been noticed. A prolonged and frequent contact may cause skin irritation and other allergic reactions in subjects sensitive to nickel.