

SCHEDA SICUREZZA (Medical Safety Data Sheet)

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Rif. ISO 9002 §/ /EN 46002 § 4.2

Modello 5/1 Revisione 0

Data 02/08/2018

MSDS N1-E.docx

SAFETY DATA SHEET

PRODUCTS RELATED TO THIS MSDS

BRACKET GAUGE (ALUMINIUM)

Raw materials used are Aluminum AL6026. Aluminum has a surface treatment to increase sterilization resistance ($18\mu m$ anodizing)

CHEMICAL COMPOSITION

ALUMINUM

1.	Up to	0.6% – 1.20% Mg
2.	Up to	0.2% - 1.00% Mn
3.	Up to	0.0% - 0.70% Fe
4.	Up to	0.6% – 1.40% Si
5.	Up to	0.2% - 0.50% Cu
6.	Up to	0.0% - 0.40% Pb
7.	Up to	0.5% - 1.50% Bi
8.	Up to	0.0% - 0.30% Zn
9.	Up to	0.0% - 0.05% Sn
10.	Up to	0.0% - 0.30% Cr
11.	Up to	0.0% - 0.20% Ti
12.	Up to	0.0% - 0.15% Others
13.	Balance	Aluminum Al

PHYSICAL - CHEMICAL PROPERTIES AND FLAMMABILITY

ALUMINIUM				
Appearance	Solid	Colour	Silver-grey	
Odour	Odourless	Safety Data	None	
Ph-value	None			
	Chan	ige of status		
Bowling point	n.a.	Melting point	$580 - 650 \mathrm{C}^{\circ}$	
Combustion rate	n.a.	Flammability	n.a.	
Ignition temperature	n.a.	Auto-ignition	n.a.	
		temperature		
Comburent capability	n.a.	Explosion limit	n.a.	
Vapour pressure	n.a.	Density at 20°	2.62 g/cm ³	
	Solubility and	l scattering features		
Soluble in water	Insoluble	Soluble in fat	Insoluble	
Scattering coefficient	None			



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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.

Possible 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.
- ⇒ **Possible 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.
- ⇒ **Primary routes of entry**: inhalation of dust and fumes.