

Product datasheet MENZANIUM wire

1 Description of the product / intended use / company

Product group:	Wire
Trade name:	MENZANIUM wire
Intended use:	Manufacture of dental appliances
Manufacturer / Supplier:	SCHEU-DENTAL GmbH Am Burgberg 20 58642 Iserlohn Germany Tel. +49 2374 9288-0

2 Composition / information on ingredients

Chemical characterization

Designation:	Stainless steel 1.4456 X8CrMnMoN18-18-2
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Components:

Description	CAS No	Quantity
Carbon (C)	7440-44-0	≤ 0,10 %
Silicium (Si)	7440-21-3	≤ 1,00 %
Manganese (Mn)	7439-96-5	= 16,00 - 20,00 %
Phosphorus (P)	7723-14-0	≤ 0,05 %
Sulfur (S)	7704-34-9	≤ 0,05 %
Chromium (Cr)	7440-47-3	= 16,00 - 20,00 %
Molybdenum (Mo)	7439-98-7	= 1,80 - 2,5 %
Nickel (Ni)	7440-02-0	≤ 0,20 %
Vanadium (V)	7440-62-2	≤ 0,20 %
Nitrogen (N)	7727-37-9	= 0,70 – 1,00 %
Iron (Fe)	7439-89-6	rest

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3 Handling and storage

Handling

Information for safe handling:

Only to be used for the above-mentioned indication and by qualified specialist personnel.

May contain nickel trace elements of 0 % - 0.2 %.

Not suitable for MRT.

Parts of orthodontic appliances can break off and be accidentally inhaled or swallowed. The appliance must no longer be worn if it is visibly damaged.

Storage

Storage conditions:

No special conditions required

4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value
Form	-	solid
Colour	-	grey
Odour	-	odourless

4.2 Biological properties / Biocompatibility

A biological evaluation was carried out for the material in accordance with DIN EN ISO 10993-1. It meets the requirements regarding biocompatibility for medical devices.

5 Stability and reactivity

Thermal decomposition / Conditions to avoid:

No decomposition by intended use.

6 Disposal

The material can be recycled after separation or disposed of like commercial or household waste.

The aforementioned data are given most conscientiously but without any obligation. Any processing details are provided merely for guidance: it is the user's responsibility to check the suitability of the product for the intended application.

Serious incidents in connection with the use of the product shall be reported immediately to the manufacturer and the competent authority.