

SECTION 1: Details of the supplier of the technical data sheet

FINO GmbH
Mangelsfeld 18 D 97708 Bad Bocklet
e-mail : info@fino.com
Internet : www.fino.com

Telephone : +49-97 08-90 94 20
Telefax : +49-97 08-90 94 21

SECTION 2: Identification of the substance or mixture**2.1 Substance group relevant properties**

Metalloxyde
ZIRCONIUM DIOXIDE

2.2 Relevant identified uses

Health services Reserved for industrial and professional use.

2.3 Recommended restrictions of use:

Do not use for private purposes (household).

2.4 Use of the substance/ preparation

Oxide ceramic preparation for the creation of dental restorations

SECTION 3: Classification of the substance or mixture**3.1 Classification / labelling:**

According to EC directives or the corresponding national regulations the product does not have to be labelled.
Harmful dust is produced during dry-state pulverisation. Inhalation of dust may cause irritation of the respiratory system.

3.2 Label elements**3.3 Special provisions concerning the labelling of certain mixtures**

EUH210 Safety data sheet available on request.

SECTION 4: Composition/information on ingredients**4.1 chemical characterization (preparation)**

Description: pre-sintered, porous ZrO₂ block

4.2 Ingredient (Designation)

> 10 %	- 1314-23-4 Zirconium oxide; ZIRCONIUM DIOXIDE
1 - 10 %	- 1314-36-9 Yttrium oxide; YTTRIUM OXIDE
0,1 - 1 %	- 1344-28-1 Aluminium oxide; ALUMINA; aluminii oxidum
< 0,1 %	- - Other
	- 20344-49-4 Iron (III) oxide hydrate; IRON HYDROXIDE

4.3 Additional information

See attached safety data sheets and/or usage instructions.

SECTION 5: Appearance

Physical state:	solid: Plates	
Colour:	white	
Odour:	odourless	
dimensions:	Ø 95/ 98 mm	10/ 12/ 14/ 16/ 18/ 20/ 22/ 25 mm
Type of packaging:	1	St

5.1 Physical and chemical properties

Designation:	at °C:	(Values after final sintering)	DIN-/EN-Norms:
Relative density:		6,08 g/cm ³	
Flexural strength:		max. 1100 N/mm ²	(4-point bending test according to DIN EN ISO 6872)
Compressive strength:		2062 N/mm ²	
Thermal expansion coefficient (CTE):	25–500	10,0 x 10 ⁻⁶ K ⁻¹	
Class:		6	

SECTION 6: Exposure controls

6.1 Occupational exposure controls

Exposure limit values: Overflow factor: TRGS 900
Ensure good ventilation / exhaustion at the workplace.
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

6.2 Environmental exposure controls

Do not allow to enter into surface water or drains.
If used and handled pertinently ecological problems are not to expect.

6.3 Toxicological information

If used pertinently toxic effect are not to expect.

SECTION 7: Supplemental label elements for certain substances or mixtures

7.1 Betriebssicherheitsverordnung (BetrSichV)

7.2 Water hazard class (WGK)

--- according to VwVwS annex 3 (D)

7.3 Storage class

13 (Nicht brennbare Feststoffe, die keiner der vorgenannten LGK zuzuordnen sind)

7.4 Waste name

Dispose of waste according to applicable legislation.

SECTION 8: Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Chemical safety assessments for substances in this mixture were not carried out.

8.1 Quality assurance:

Meets all the provisions of the Directive 93/42/EEC annex I including the conformity assessment procedure described in EG-RL-93/42/EEC annex VI/ annex VII.

SECTION 9: Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.