

DATA SHEET N°: 514 PF 127 Version 6 date: 28/01/14

N° CAS: 112926-00-8 (previously: 7631-86-9)

N° EINECS: 231-545-4

INCI NAME: hydrated silica

IDENTITY AND ASPECT

Chemical composition:	10 SiO ₂ , 1 H ₂ O
Characteristics:	Amorphous precipitated silica
Aspect:	White powder
Tapped density	≅ 0.30 kg/dm ³ (tapped product)
SiO ₂ (on calcined product)	≥ 97.0 %

PRODUCT SPECIFICATIONS

Type	Method	Unit	Value
pH (5g/95 g of water)	SOLVAY 3 QSE 20.02		7.2-8.2
Humidity 2h 105°C	SOLVAY 3 QSE 20.10	%	≤ 7.5
Ignition loss 1000°C	SOLVAY 3 QSE 20.10	%	≤ 12
Oil absorption (DOA)	SOLVAY 3 QSE 20.81	ml/100g	95-110
Soluble salts as Na ₂ SO ₄	SOLVAY 3 QSE 20.02	%	≤ 1.5
Sieve residue 45 µm (325 mesh)	SOLVAY 3 QSE 20.13	%	≤ 1.5
Mean diameter (Laser)	SOLVAY 3 QSE 20.24	µm	6-12
Fluoride compatibility	SOLVAY 3 QSE 20.19	%	≥ 90
Refractive index	SOLVAY 3 QSE 20.17		1.437-1.447
Transmission	SOLVAY 3 QSE 20.17	%	≥ 60
Total aerobic bacteria	LSET04-0376	u/g	≤ 300
Arsenic as As	ICP/MS	ppm	≤ 3
Lead as Pb	ICP/MS	ppm	≤ 5
Total heavy metals as Pb (Pb + Hg + Cd + As + Sb)	ICP/MS	ppm	≤ 20

This product meets the Dental Type Silica Monograph of the European Pharmacopeia

Corresponding specification values are mentioned on the Bulletin of analysis except for As, Pb & Total heavy metals which analysis are performed twice per year.

PACKAGING

Standard packaging:

- Paper bags of 20 kg net.. Pallet 4 ways (900 x 1300), 42 bags, 840 kg net per pallet
- Paper bags of 20 Kg net. Pallet 4 ways (900 X 1300), 21 bags - 420 Kg net per pallet
- Paper bags of 20 Kg net. Pallet 4 ways (900 X 1300), 45 bags - 900 Kg net per pallet
- Bulk
- Big bag of 550 or 800 kg net. Pallet 4 ways (1090 X 1090)

SAFETY, STORAGE, HANDLING, LABELLING, TRANSPORTATION, REGULATION

Refer to the Material Safety Data Sheet.

Our Technical Services Department takes all the necessary measures to guarantee that the product conforms to the specifications indicated in this document. The user is nevertheless advised to carry out the preliminary tests to ensure the suitability of the product.

The user is advised in all cases to check local legislation concerning the use of the product.

We remain at your entire disposal to provide any further information that you may require.

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of LEHVOSS Italia Srl. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.

SOLVAY-COLLONGES PLANT

15 rue Pierre Paÿs – BP 52
69660 COLLONGES AU MONT D'OR - FRANCE
T: 04 72 42 14 00
Fax: 04 72 42 14 99