

DATA SHEET N°: 514 PF 137 Version 3 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	≅ 0.34 kg/dm ³ (tapped product)
SiO ₂ (on calcined product)	≥ 98.0 %

PRODUCT SPECIFICATIONS

Type	Method	Unit	Value
pH (5g/95 g of water)	SOLVAY 3 QSE 20.02		6.0-8.0
Ignition loss 1000°C	SOLVAY 3 QSE 20.10	%	≤12
Soluble salts as Na ₂ SO ₄	SOLVAY 3 QSE 20.02	%	≤1.0
Sieve residue 45 µm (325 mesh)	SOLVAY 3 QSE 20.13	%	≤1.2
Fluoride compatibility	SOLVAY 3 QSE 20.19	%	≥90
Refractive index	SOLVAY 3 QSE 20.17		1.435-1.445
Total aerobic bacteria	LSET04-0376	u/g	≤300
Arsenic as As	ICP/MS	ppm	≤3
Lead as Pb	ICP/MS	ppm	≤10
Total heavy metals as Pb	ICP/MS	ppm	≤ 30
(Pb + Hg + Cd + As + Sb)			

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 once per year.

PACKAGING

Standard packaging:

- Paper bags of 25 kg net. Pallet 4 ways (900 x 1300), 36 bags, 900 kg net per pallet
- Paper bags of 25 kg net. Pallet 4 ways (900 x 1300), 21 bags, 900 kg net per pallet
- Big-bags of 870 Kg net
- Bulk

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.

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