

DATA SHEET N°: 514 PF 172 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:	≅ 0.30 kg/dm ³ (tapped product)
SiO ₂ (on calcined product)	≥ 98.0 %

PRODUCT SPECIFICATIONS

Type	Method	Unit	Value
pH (5g/95 g d'eau)	SOLVAY 3 QSE 20.02		6.0 - 8.0
Humidity 2h 105°C	SOLVAY 3 QSE 20.10	%	≤ 8
SiO ₂ (on calcined product)	SOLVAY 3 QSE 20.02	%	≥ 98,0
Loss on ignition 1000°C on dry product	SOLVAY 3 QSE 20.10	%	≤ 8,5
Oil absorption (DOA)	SOLVAY 3 QSE 20.81	ml/100g	105-125
Soluble salts as Na ₂ SO ₄	SOLVAY 3 QSE 20.02	%	≤ 1.0
% particules > 56 µm (Laser)	SOLVAY 3 QSE 20.24	%	≤ 1.2
Sieve residue 45 µm	SOLVAY 3 QSE 20.18	%	≤ 1,5
Fluor compatibility	SOLVAY 3 QSE 20.19	%	≥ 90
Refraction index	SOLVAY 3 QSE 20.17		1.440 – 1.450
Transmission	SOLVAY 3 QSE 20.17	%	≥ 65
Total bacteria	LSE Z77	cfu/g	≤ 300
Yeast & moulds	LSE Z77	cfu/g	≤ 100
Chlorures	CRTA More 2591	%	≤ 0,1
Arsenic as en As	ICP/MS	ppm	≤ 3
Lead as en Pb	ICP/MS	ppm	≤ 4,5
Total heavy metal (Pb+Hg+Cd+As+Sb)	ICP/MS	ppm	≤ 30

This product meets dental type silica monographs from the European & US pharmacopieas

Corresponding specification values are mentioned on the certificate of analysis except for Cl, 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), 45 bags, 900 kg net per pallet
- 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.

SOLVAY-COLLONGES PLANT

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