

**TECHNICAL INFORMATION****Highly active bleaching earth****TONSIL® 8120-D FF****Product description**

TONSIL 8120-D FF is a highly active bleaching earth for a special application, regeneration of solvents. It is manufactured by acid activation of calcium bentonite and is neutral concerning its pH-value.

TONSIL 8120-D FF is a fine, greyish-white powder showing a highly porous inner structure and a multitude of acid sites upon its surface.

TONSIL 8120-D FF possesses outstanding properties for removal of polar impurities and traces of acid in solvents.

TONSIL 8120-D FF is mainly used for purification and regeneration of solvents applied for dry cleaning, furthermore for decolourization and finishing of oleochemicals which are sensitive to traces of acid.

**Physical/chemical characteristics (typical product data)**

Apparent bulk density	g/l	622
Free moisture (2 hrs, 110 °C)	%	~ 10
Loss on ignition (predried, 2 h, 1.000 °C)	%	11,4
pH (10% suspension, filtered)	-	7,0
Acidity	mg KOH/g	--
Chloride content	mg Cl/g	0,4
Surface area (B.E.T.)	m <sup>2</sup> /g	210
Micropore volume		
0 - 80 nm	ml/g	0,27
0 - 25 nm	ml/g	0,26
0 - 14 nm	ml/g	0,22

**Filtration properties**

TONSIL 8120-D FF shows excellent filtration performance as so-called "FF"-grade (**FF**= fast filtration). The filtration time (according to the standard method BE 0013) averages between 60 and 90 seconds.

### Particle size

Besides other methods, the particle size of TONSIL 8120-D FF is determined by a sieve analysis of the dry powder. The following average values have been found for the various sieve fractions:

> 150 µm	%	11
> 100 µm	%	28
> 63 µm	%	38
> 45 µm	%	48
> 25 µm	%	64

### Chemical analysis

TONSIL 8120-D FF (dried at 110°C for 2 hours) has the following composition (average values):

SiO <sub>2</sub>	%	62,4
Al <sub>2</sub> O <sub>3</sub>	%	12,1
Fe <sub>2</sub> O <sub>3</sub>	%	2,1
CaO	%	8,1
MgO	%	1,3
Na <sub>2</sub> O	%	0,3
K <sub>2</sub> O	%	1,0
Loss on ignition	%	11,4
Total	%	98,8

### Further information and technical advice

All data mentioned in this leaflet are typical for this product and based on average values. Certain deviations can appear due to the processing of natural clays as a raw material. In no case are these values to be regarded as specifications. On request, certificates of analysis according to DIN (German standard regulations) for specified values of single properties can be agreed upon.

Detailed information concerning application and handling can be taken from our TONSIL booklet and from our material safety data sheet of TONSIL 8120-D FF.

If desired, our Technical Service Department will readily provide further support.

All information in this publication is in accordance with our present experience and knowledge. However, since we have no influence on the way in which our products are treated and used, we cannot take any responsibility in this respect. The user must assume responsibility himself for checking whether the products are suitable for the purpose and use proposed by him. All existing proprietary rights, laws and regulations shall be observed.