

TECHNICAL DATASHEET

PENOX TBLS+® 'Next Generation'

TBLS+®
Next
Generation

Main Battery Applications:

All types of lead acid batteries.

Description:

TBLS+® is a tetra basic lead sulphate produced by the reaction of lead oxide with sulphuric acid, chemical formula $PbSO_4 \cdot 4 PbO$.

TBLS+® has a d50 sub-micron particle size and is specially treated for applications in the battery industry (lead accumulator). The product is sold as a slurry, suspended in water.

The content of tetrabasic seed crystals in the slurry is adjusted to min. 32 % by the producer.

PENOX TBLS+®:

Recommended addition rate from 0.5 to 1.5 % of the lead oxide weight in the paste recipe.

Physical/Chemical Data:

TBLS+® is free of carbon compounds and other components that can affect the battery.

Solids ¹⁾		39 - 45 %	DIN ISO 787-2
Particle Size	d 99	< 3.6 µm	PV 109, Laser Diffraction
	d 50	< 0.6 µm	PV 109, Laser Diffraction
Density of the Slurry ¹⁾		1.45 - 1.75 g/cm ³	DIN EN ISO 787-10
Content of seeds ²⁾		> 32 %	PV 261, FTIR Spectroscopy
Pb (total) of the lead compound		83-85 %	PV 265, EDTA Titration
Impurities	Iron	< 20 ppm	PV 450, ICP

1) depends on the content of tetra basic seed crystals of the raw material

2) adjusted by the producer

Packaging: upon agreement – buckets and IBCs available.

All technical data and information are for guidance and assistance in your application. The particulars are made to the best of our knowledge but without liability.

**Battery
Additives**