

TECHNICAL DATASHEET

PENOX RL+

RL+

Main Battery Applications:

All types of lead acid batteries.

Description:

RL+ is Red Lead Pb_3O_4 coated with a micro-sized Tetrabasic (4BS) Seeding Material.

RL+ is a dry, free-flowing material with similar handling properties as regular red lead. The Red Lead is specially treated with 4BS for applications in the battery industry (lead accumulator). Please note that the number of effective seeds depends on the loading of the red lead with 4BS material and more strongly on the average particle size of the 4BS seeds.

PENOX RL+:

Recommended addition rate from 20 to 40 % of the lead oxide weight in the paste recipe.

Physical/Chemical Data:

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

PbO₂		24-27 %	DIN 55916-7
PbO		73-76 %	PV 110
Particle Size	d50	5 µm +/-0.5	PV 107, Sympatec
Acid Absorption		150 – 200 mg H ₂ SO ₄	PV 117

Content of 4BS		1.5 %	PV103, FTIR
Particle size 4BS	d50	0.5-0.7 µm	PV109, Cilas
Impurities*	Ag	< 20 mg/kg	PV 450, ICP
	As, Sb	< 10 mg/kg	PV 450, ICP
	Bi	< 180 mg/kg	PV 450, ICP
	Ni	< 1 mg/kg	PV 450, ICP
	Cu	≤ 5 mg/kg	PV 450, ICP
	Fe, Te	< 5 mg/kg	PV 450, ICP
	Sn, Zn	< 10 mg/kg	PV 450, ICP

* Red lead quality can be improved depending on the lead available

Packaging: Big Bags.

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