

46000 Lead White

Color Index: Pigment White 1, C.I. 77596
English: Lead carbonate (PbCO_3), synthetic Cerussite
German: Bleiweiß, Bleicarbonat
French: Blanc de plomb, carbonate de plomb

Technical Data:

Appearance:	white powder
Lead content:	77 %
Impurities:	0.1 %
pH Value:	6.8
Sieve Residue, 44 μ :	max. 0.01 %
Moisture and volatile matter at 105°C:	max. 0.21 %

Remarks:

Only for professional users !

Differences between Lead Carbonate and basic Lead Carbonate

Lead White, Lead Carbonate

Color Index:	PW 1, 77596
CAS No.:	598-63-0
Description:	Lead carbonate, PbCO_3 , Cerussite, natural mineral oder synthetic manufactured
Specific weight:	6.6 g/cm^3
Thermal decomposition:	> 315 °C
Refraction index:	2.08

Decomposes in hot water to form basic lead carbonate, is destroyed by acids and alkalis, reacts with sulfur-containing compounds to form black lead sulfide.

Blei White, basic Lead Carbonat

Color Index:	PW 1, 77597
CAS No.:	1319-46-6
Description:	Basic Lead Carbonate, $2 \text{PbCO}_3 \cdot \text{Pb(OH)}_2$, made from lead plates with vinegar or other organic acids.
Specific weight:	6.7 – 6.8 g/cm^3
Thermal decomposition:	400 °C
Refraction index:	1.9 – 2.0

Insoluble in cold and hot water, destroyed by acids and alkalis, reacts with sulfur-containing compounds to form black lead sulfur.

Source: Data according to Römpp online chemical encyclopedia 2025, and Handbook of Chemistry and Physics, 1978