



Natural Baryte Powders

Natural barium sulphate, also known as baryte, is a classic filling mineral used in paint production. The paint industry uses mainly qualities with a BaSO_4 content of more than 90%.

Barytes are chemically inert. Further advantages are its easy dispersibility, its low abrasion and its excellent resistancy against heat and corrosion. Showing extremely low values in oil absorption, barytes are predestinated for formulations of the paint industry. Barytes act as a texturing agent in paints without bearing the risk of damaging its splendour. This holds even true for formulations with a high filler content. This is also advantageous for the blending of pigments, in which in many cases very bright, micronised barytes are used.

Their specific weight predestinates barytes for certain applications, like e.g. floor coating, heavy coating and knifing fillers. Chemical-resistant coatings as well as heavy anti-corrosion pigments are in most cases filled with barytes.

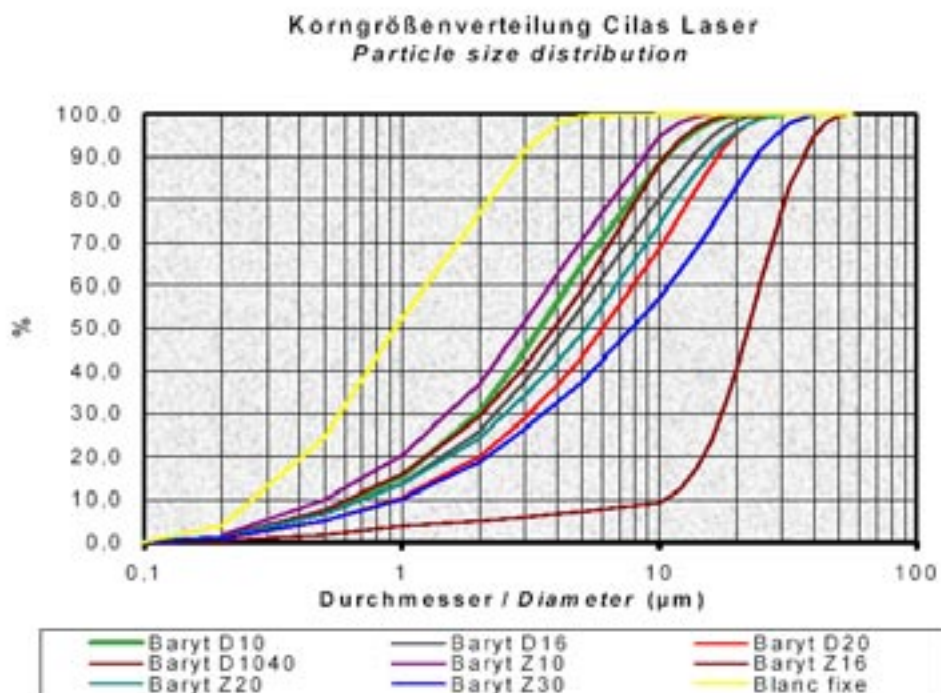
Barytes with selected particle size distribution may be used to obtain gloss control in powder coatings.

Precipitated Barium Sulphates / Blanc fixe

Obtained by a chemical precipitation process allowing a special chemical purity and ultrafine particle sizes. Blanc fixe enhances brilliance in many coatings and acts as a pigment disperser both in coloured systems as a distancer between white and coloured particles and thus increased effectiveness of coloured pigments.

In medical X-ray tests, Blanc fixe serves as a contrast agent, Blanc fixe also serves for cristallisation for lead sulphates in accumulators to maintain loading capacity. Heavy duty and high gloss papers are usually produced with precipitated barium sulphate. Thermoplastics can be filled with precipitated barium sulphate to obtain special properties.

Technical Data of Barium Sulphates / Techn. Daten natürlicher und gefällter Bariumsulfate



Natural Barium Sulphates / Natürliche Bariumsulfate

Blanc fixe

	D 10	D 16	D 20	D 1040	Z 10	Z 16	Z 20	Z 30	Blanc Fixe
Chem. Analyse/									
Chem. analysis									
BaSO ₄	min.	min.	min.	min.	min.	min.	min.	min.	
SiO ₂	97%	97%	97%	97%	97%	97%	97%	97%	min. 98 %
					0,4%	0,4%	0,4%	0,4%	
Korngrößen/									
Particle Sizes									
D 98 (µm)	17	19,4	24	44	12	15	20	30	4,2
D 90 (µm)	10,7	13,5	17	35	9	10	12	17	2,9
D 10 (µm)	0,7	0,8	1,0	10	0,5	0,7	0,8	1,0	0,3
D 50 (µm)	3,5	4,8	6,2	22	3,0	4,0	4,9	6,7	0,80
Opt. Daten / data									
L*	97,2	97,2	97,2	97,2	97,2	97,2	97,2	97,2	98,8
a*	0,1	0,1	0,1	0,1	0,0	0,0	0,0	0,0	0,0
b*	0,3	0,3	0,3	0,3	1,2	1,2	1,2	1,2	1,0
Weißgrad / Whiteness									
R457	93,0	93,0	93,0	93,0	90,0	90,0	90,0	90,0	95,1
Phys. Daten / data									
Dichte / Density (g/cm ³)	4,40	4,40	4,40	4,40	4,40	4,40	4,40	4,40	
Ölzahl / Oil absorption (ml/100g)	10	10	9	9	10	10	9	9	14