

Product Data Sheet

Imperial White “S” Products – Calcium Carbonate

Description: Arcosa Specialty Materials “Imperial” brand white “S” products are calcium carbonate fillers and extenders that have excellent purity and brightness. Imperial “S” products are ground from stone of typically 98% calcium carbonate at our Seattle Washington plant. Dry brightness ranges from 88 to 94 across the product line. This makes “S” series fillers and extenders ideal for a wide range of applications including coatings, plastics, caulk, and sealants.

Arcosa Specialty Materials quality is the most important ingredient in all our fillers and extenders. Statistical process control, statistical quality control and other quality control programs assure your requirements are satisfied day after day. Therefore you can count on Imperial White “S” fillers and extenders to help you consistently produce top quality products with maximum efficiency.

Chemical Properties (Typical): Calcium Carbonate - 97.8%, Magnesium Carbonate - 0.6%, Silica and Silicates - 0.7%

Physical Properties (Typical)	S-200	S-325	S-6	S-4
Hegman Grind			4	6
Median Particle Size (Microns)	23	11	8	5
325 Mesh Residue	19	0.5	0.01	0.01
Dry Brightness (Hunter “Y”)	90	91	92	93
Oil Absorption (lbs Oil/100 lbs, ASTM D-281)	13	15	17	18
Moisture (%)	0.1	0.1	0.1	0.15
Water Requirement (ml/100 grams)	36	40	45	50
Loose Bulk Density (lbs/ft ³ , ASTM C-110)	55	50	45	40
Compacted Bulk Density (lbs./ft ³ , ASTM C-110)	75	75	65	60
Weight Per Gallon (lbs/solid gallon)	22.6	22.6	22.6	22.6

Partical Size Analysis (Typical – Cumulative % Finer Than)	S-200	S-325	S-6	S-4
150 microns (100 mesh)	99.9			
76 microns (200 mesh)	98	99.99		
44 microns (325 mesh)	81	99.5	99.99	99.99
20 microns	43	66	92	99
10 microns	25	33	63	92
7 microns	20	24	45	77
6 microns	17	22	38	67
3 microns	11	14	17	28
1 micron	4	4	5	7