



Additive & Intermediate Powders

Description: Ferro offers an extensive line of titanate, zirconate, stannate and oxide additives for use in ceramic capacitor dielectric

formulations. Several setter sands used in firing multilayer ceramic capacitors are also available.

Additives

Product	Description	Particle Size Distribution (µm)			Surface Area (m ² /g)	Tap Density (lb/ft ³)
		D90	D50	D10		
104-2	Zirconium Oxide	–	0.8	–	–	70-110
117	Calcium Zirconate	–	2.8	–	1.6	60-70
119	Barium Zirconate	–	1.0	–	–	78-110
203-4	Titanium Dioxide	–	1.1	–	4.7	50-62
Ticon HG	Titanium Dioxide	4.55	3.0	1.45	2.3	110
Ticon CG	Titanium Dioxide	9.8	–	–	–	–
216	Magnesium Titanate	–	2.6	–	–	73-89
217	Calcium Titanate	–	1.6	–	–	50-80
218	Strontium Titanate	–	2.0	–	–	63-86
Ticon 55	Strontium Titanate	2.9	1.1	0.5	4.3	–
220-2	Bismuth Titanate	–	1.2-2.9	–	–	90-120
220-2A	Bismuth Titanate	3.2	1.5	0.7	–	95-115
222-2	Neodymium Titanate	–	1.6-2.0	–	–	70-90
301	Tin Oxide	–	1.8	–	–	60-81
320	Bismuth Trioxide	16	6.1	1.5	0.2-0.5	248-285
320A	Bismuth Trioxide	3.8	2.2	1.2	n/a	124-167
Ticon 95	Lead Titanate	5.65	1.22	0.42	2.15	180

Intermediates

Product	Description	Particle Size Distribution (µm)			Surface Area (m ² /g)	Tap Density (lb/ft ³)	
		D90	D50	D10			
BST	Barium Strontium Titanate	Custom made BST powders based on customer supplied chemical and physical specifications					
MZN	Magnesium Zinc Niobate	1.0-1.9	0.62-0.92	–	2.9	–	
MZN-4	Magnesium Zinc Niobate	1.0-1.9	0.62-0.92	–	3.6	–	
Ticon 75	Magnesium Aluminum Silicon Titanate	4.5-7.0	2.2-3.2	0.8-1.4	–	80-100	

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