

Technical Data Sheet

Ceramic Powders and Formulations for Passive Components Barium Titanate Powder Products

Application

Ferro is a leading manufacturer of barium titanate powder products fabricated by solid state synthesis. These are used for a variety of electronic component applications that can include single & multilayer ceramic capacitors, piezoelectric

devices, EL coatings, embedded capacitors, composite polymer films and many others.

All products are Pb/Cd free and formulated and processed to be RoHS compliant.

Barium Titanate Products

Product Code		219-6A	Ticon C	Ticon P	Ticon T	
Chemical Formula		BaTiO ₃	BaTiO ₃	BaTiO ₃	BaTiO ₃	
BaO + SrO : TiO ₂ Mole Ratio		0.994	0.981	0.997	1.004	
Particle Size Distribution	D90	μm	2.1	3.2	4.0	3.4
	D50	μm	1.3	1.5	1.8	1.6
	D10	μm	0.8	0.7	0.6	0.6
Surface Area		m ² /g	2.1	2.0	2.0	2.3
Loss on Ignition		wt-%	< 0.5	< 0.5	< 0.5	< 0.7
True Density ²		g/cc	6.0	6.0	6.0	6.0
Typical Total Impurities		wt-%	< 0.1	< 1	< 1	< 1

¹ ABT-SL-10N is designed to contain increased levels of Nb₂O₅.

² Helium Pycnometer



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