

Tantalum Powder

QR7 Capacitor Grade Tantalum

This product data sheet covers the requirements for the production, handling, and testing of QR7 High Voltage, Capacitor Grade, Tantalum Powder manufactured by Materion Corporation, Newton, MA.



Physical Characteristics

	Min.	Max.
Fisher Subsieve Sizer FAPD [micron]	7.6	10.9
Scott Bulk Density SBD [g/in ³]	55.0	65.0

Chemical Characteristics (ppm)

	Max
Carbon [C]	60
Chromium [Cr]	10
Copper [Cu]	2
Iron [Fe]	30
Molybdenum [Mo]	5
Nickel [Ni]	10
Niobium [Nb]	10
Nitrogen [N]	60
Oxygen [O]	1700
Potassium [K]	10
Silicon [Si]	25
Sodium [Na]	1
Titanium [Ti]	5



Electrical Characteristics

Electrical Test 1		
Sinter Temp./Time	1800 C	
Voltage	200	
% Wild Anodes		0
DCL [$\mu\text{A/g}$]		1.5 max.
CV/g [$\mu\text{fV/g}$]	3800 min.	4200 max.
ESR [ohm]		10 max.
VBD [V]	200 min.	

Electrical Test 2		
Sinter Temp./Time	2050 C	
Voltage	270	
% Wild Anodes		0
DCL [$\mu\text{A/g}$]		3.5 max.
CV/g [$\mu\text{fV/g}$]	3000 min.	3300 max.
ESR [ohm]		10 max.
VBD [V]	240 min.	

Hazards identification in Advertising

(Directive 67/548/EEC Article 26 and Directive 1999/45/EC Article 13)

Packaging The Materion convention has been to package this material in 1 liter high density polyethylene bottles at 10lbs/bottle.

Rejection Materion Corporation must receive written notification of rejected material with the reason for rejection. The right is reserved to inspect rejected material at customer plant for claim validation. The material may be returned only after proper authorization.

Access Materion material Safety Data Sheets on [materion.com](https://www.materion.com).