



Product Information

ASTM Standards: Chemical Requirements for Tantalum



ASTM B365, B708: Additional Chemical Requirements for Finished Product*

(When specified by the purchaser)
Content, Maximum % Weight Grades

Element	Electron-Beam Cast (R05200) Unalloyed Tantalum	Sintered (R05400) Unalloyed Tantalum	Electron-Beam Cast (R05255) 90% Tantalum 10% Tungsten	Electron-Beam Cast (R05252) 97% Tantalum 2.5% Tungsten	Electron-Beam Cast (R05240) 60% Tantalum 40% Niobium
O	0.025	0.035	0.025	0.025	0.025
N	0.010	0.010	0.010	0.010	0.010
C	0.0015	0.0015	0.0015	0.0015	0.0015
H	0.020	0.020	0.020	0.020	0.020

*Certifiable per ASTM B365 and B708, report values for ASTM B521

ASTM B364, B365, B521, B708:

Chemical Requirements for Tantalum and Tantalum Alloy Ingots
(Content, Maximum Weight %)

Element	Electron-Beam Cast (R05200) Unalloyed Tantalum	Sintered (R05400) Unalloyed Tantalum	Electron-Beam Cast (R05255) 90% Tantalum 10% Tungsten	Electron-Beam Cast (R05252) 97% Tantalum 2.5% Tungsten	Electron-Beam Cast (R05240) 60% Tantalum 40% Niobium
C	0.010	0.010	0.010	0.010	0.010
O	0.015	0.030	0.015	0.015	0.020
N	0.010	0.010	0.010	0.010	0.010
H	0.0015	0.0015	0.0015	0.0015	0.0015
Nb	0.100	0.100	0.100	0.500	35.0-42.0
Fe	0.010	0.010	0.100	0.010	0.010
Ti	0.010	0.010	0.100	0.010	0.010
W	0.050	0.050	9.0-11.0	2.0-3.5	0.050
Mo	0.020	0.020	0.020	0.020	0.020
Si	0.005	0.005	0.005	0.005	0.005
Ni	0.010	0.010	0.010	0.010	0.010
Ta	remainder	remainder	remainder	remainder	remainder

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