# **SPECIALTY METALS**

Common Name:	CP Grade 7 CP Grade 2 with Palladium	Ti-0.15PD Titanium Grade 7
UNS Number:	R52400	
General Information:	Titanium Alloy Grade 7 with 0.1% palladium is similar to Grade 2, but with improved resistance to general and localized crevice corrosion in a wide ran reducing acid environments, including chlorides, and where low pH and hig temperatures above 180°F (83°C) to 500°F (260°C) are prevalent. The alloy available as castings, wire, welded tube, pipe, plate, sheet, strip, forgings, ba billet.	

<b>Common Specifications:</b>	Specification:	Product Form:	
	ASME SB-265	Sheet, Strip, and Plate	
	ASME SB-337	Pipe, Seamless and Welded	
	ASME SB-338	Tube, Seamless and Welded	
	ASME SB-348	Bar and Billet	
	ASTM B265 (Grade 7)	Sheet, Strip, and Plate	
	ASTM B348 (Grade 7)	Bar and Billet	
	ASTM B367 (Grade 7)	Castings	
	ASTM B861*	Seamless Pipe	
	ASTM B862*	Welded Pipe	
	AWS A5.16 (ERTi-7)	Weld Wire	
	* Replacing ASTM B337		

Replacing ASTM B337

#### **Chemistry Requirements:** % Maximum unless given as a range.

Ν	С	Н	Fe	0	Pd	<b>Residuals Each Max.</b>	Residuals Max. Total	Ti
0.03	0.08	0.015	0.30	0.25	0.12-0.25	0.1	0.4	Balance

Note: Chemical requirements are not consistent between specifications. Check referenced specifications.

#### **Minimum Tensile Properties:**

Condition	UTS ksi (Mpa)	0.2%YS ksi (MPA)	% El.	% RA*
As specified (shape)	50 (345)	40 (275)	20	30

### **Typical Tensile Properties:**

Condition	UTS ksi (Mpa)	0.2%YS ksi (MPA)	% El.	% RA
As provided	70 (438)	51 (352)	28	-

Note: Typical properties are not to be utilized as a requirement, but are only listed for guidance. These properties may or may not be attainable in all circumstances.

\* %Ra not required by all specifications

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