

Penn Stainless Products, Inc. Stainless Steel Round Bar Specifications

Penn Stainless Specification	Forged Rough Turned 8.0 and Over Round Bar									Page 1/1		
	303	304	304/304L	316/316L	321	410	416	440C	Alloy 20	630	ESR Alloy HX	
F740-17 Rev A												
ASTM A276/ASME A276		•	•	•	•	•		•				
ASTM A479/ASME A479		•	•	•	•	•		•				
QQ-S-764	•						•					
ASTM A182		•	•	•	•							
ASTM A370		•	•	•	•							
ASTM A193 B8M/ASME SA193 B8M		•	•	•	•							
ASTM A320 B8M/ASME SA320 B8M		•	•	•	•							
ASTM E112 Grain Size		•	•	•	•							
MIL - S 862 B/1		•	•	•	•							
ASTM A388											•	
ASTM A564/ASME SA564										•		
ASTM A473/ASME SA473								•				
ASTM B473/ASME SB473									•			
ASTM B472/ASME SB472												
ASTM A582	•						•					
ASTM A314								•				
ASTM A484	•				•	•		•		•		
ASME SA183		•	•	•	•							
AMS QQ-S-763/304 Type AMS Spec	1	5639	5639/5647	5648/5653	5645	2303	5610	5630		2315	5754	
UNS	S30300	S30400	S30400/S30403	S31600/S31603	S32100	S41000	S41600	S44004	N08020	S17400	S17400	
NASE MR0175		•	•	•	•	•	•	•	•	•	•	
ROHS Directive 2002/95/EC	•	•	•	•	•	•	•	•	•	•	•	
Tolerance- Length/Width/Flatness	According to ASTM Specification- Aim for half of tolerance											
ASTM A262		E	E	E	E	B	B	B	B			
Marking: ASTM : grade(s)- stamp(s) + heat and plate number	Standard(s)- All items must be in U.S. Customary Units All these elements indicated on packing list + quantity + number of packings											
Certificate according to EN 10204-3.1 with the year of EN10204 issue.	Where the spec rev/edition is not notes above, standard latest edition dates must be shown on certificates											
Heat Treatment of 300 Series Stainless	Solution annealed @1900 F min, water quench, rapid air cool or inert gas atm											
Heat Treatment of Alloy 20 Series Stainless	Stabilized annealed statement (temp and quench method)											
Heat Treatment of 630 Series Stainless	Solution treated @1900 F +/-25 F/Precipitation hardened @1150 +/- 15 4 hours-straightened or stress relieved @ 1050 F											
Certification: ISO 9001	Country of Melt and Country of Manufacture											
	Inspector/ Quality person's name and title typed and signature or cert											
	Free from radioactive contamination/No Mercury Contamination/No Weld Repair											
	Fraud and Falsification statement must be on test report											
	Material must be supplied in unsensitized condition											
	Cobalt must be report on material cert. Send test reports to certs@pennstainless.com											
	Compliance/Conformance Statement that material meets all requirements of purchase order and required specifications											
Approved:	Dawn M Devlin									Date:	3/1/2020	

