



ISO 9001:2015 Certified Company

PRECISION BRAND PRODUCTS, INC.

2250 CURTISS STREET

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Monday, 02/25/2019

This is to certify that to the best of our knowledge and belief, all values shown below are correct and true and the material complies with the specifications shown.

TOOL WRAP

	309 ANNEALED STAINLESS	321 ANNEALED STAINLESS
CARBON (C)	.08 max.	.08 max.
MANGANESE (Mn)	2.00 max.	2.00 max
PHOSPHORUS (P)	.045max.	.045 max
SULPHUR (S)	.030 max.	.030 max
SILICON (Si)	.75 max.	.74 max
CHROMIUM (Cr)	22.0-24.0	17.0-19.0
NICKEL (Ni)	12.0-15.0	9.0-12.0
NITROGEN (N)	--	.10 max
TITANIUM (Ti)	--	5 x (C+N) min., .070 max.
ULTIMATE TENSILE STRENGTH		75 ksi min.
YIELD STRENGTH		30 ksi min.
ELONGATION IN 2"		40% min.
ROCKWELL HARDNESS		95 B SCALE (max.)

MEETS SPECIFICATIONS:

309

AMS S-523 / ASTM A-240

ASME S A240

SAE 30309S / UNS S30908

321

AMS-5510

ASTM-A-240

ASTM-A-167