
STAINLESS STEEL 316-316L

316/1.4401/UNS S31600
316L/1.4404/UNS S31603

Chemical Composition

	Ni	Cr	Mo	Mn	Si	C	S	P	N	Fe
MIN	10.0	16.0	2.0	-	-	-	-	-	-	
MAX	14.0	18.0	3.0	2.0	0.75	0.03	0.03	0.045	0.1	Balance

Physical Properties

Temperature, °F	70	212	932	1832
Coefficient* of Thermal Expansion, in/in°F x 10-6	-	9.2	10.1	10.8
Thermal Conductivity Btu • ft/ft ² • hr • °F	7.8	-	-	-

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Modulus of Elasticity Dynamic, psi x 106	29	-	-	-
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Density: 0.285 lb/inch3

Poisson's Ratio: 0.3

Electrical Resistivity: 445 Ohm-circ mil/ft

Mechanical Properties

Representative Tensile Properties

Ultimate Tensile Strength, ksi	75
0.2% Yield Strength, ksi	30
Elongation, %	40
Hardness MAX, Brinell	217

Typical Tensile and Impact Properties

Temperature, °F	70	200	400	600	800	1000	1200	1400
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Ultimate Tensile Strength, ksi	82.4	75.6	71.1	71.1	71.1	68.4	50.7	30.7
0.2 % Yield Strength, ksi	42.4	-	-	-	26.5	23.4	22.6	-
Charpy Impact V-notch, ft-lbs	65 - 100	-	-	-	-	-	-	-



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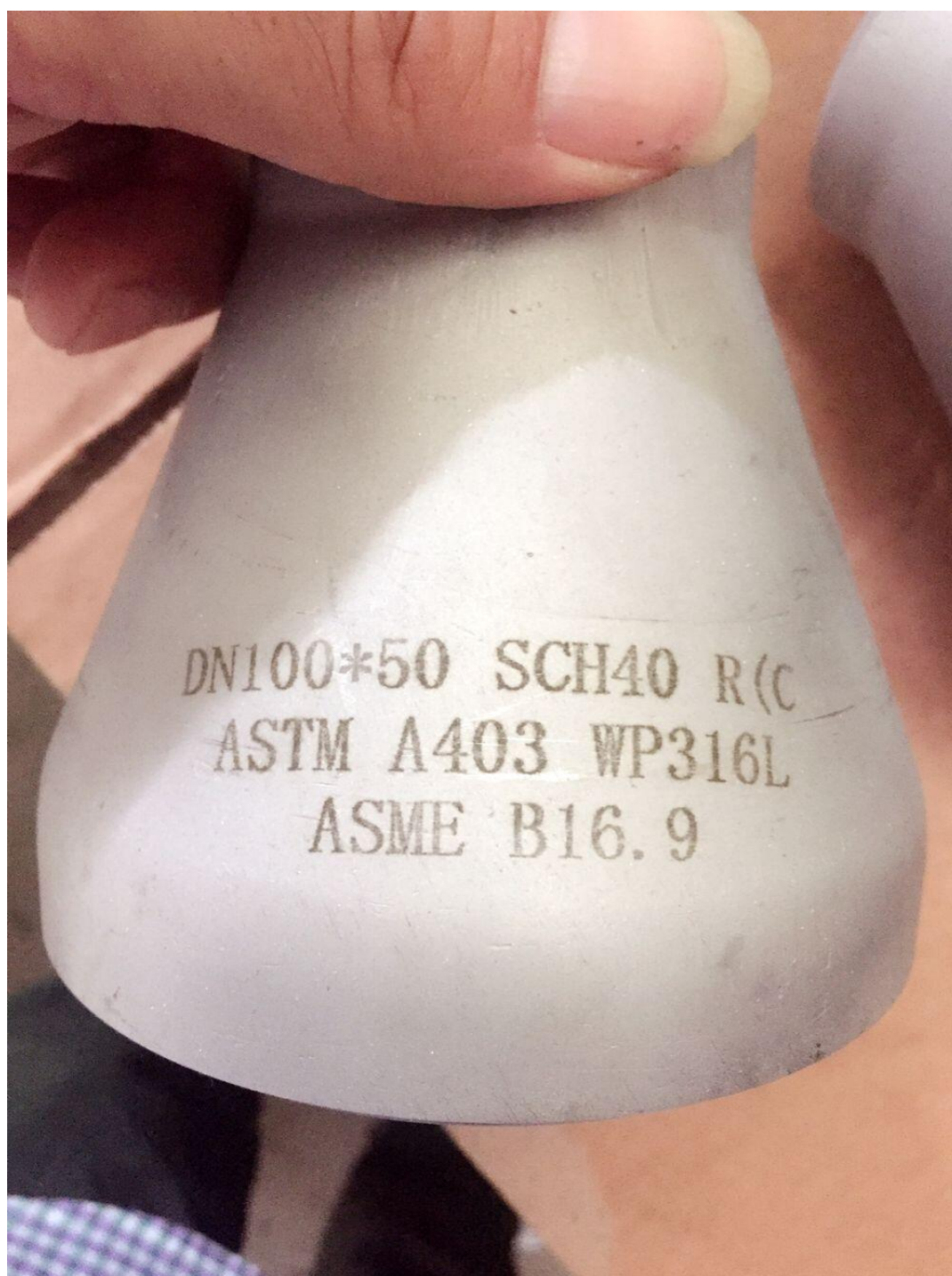
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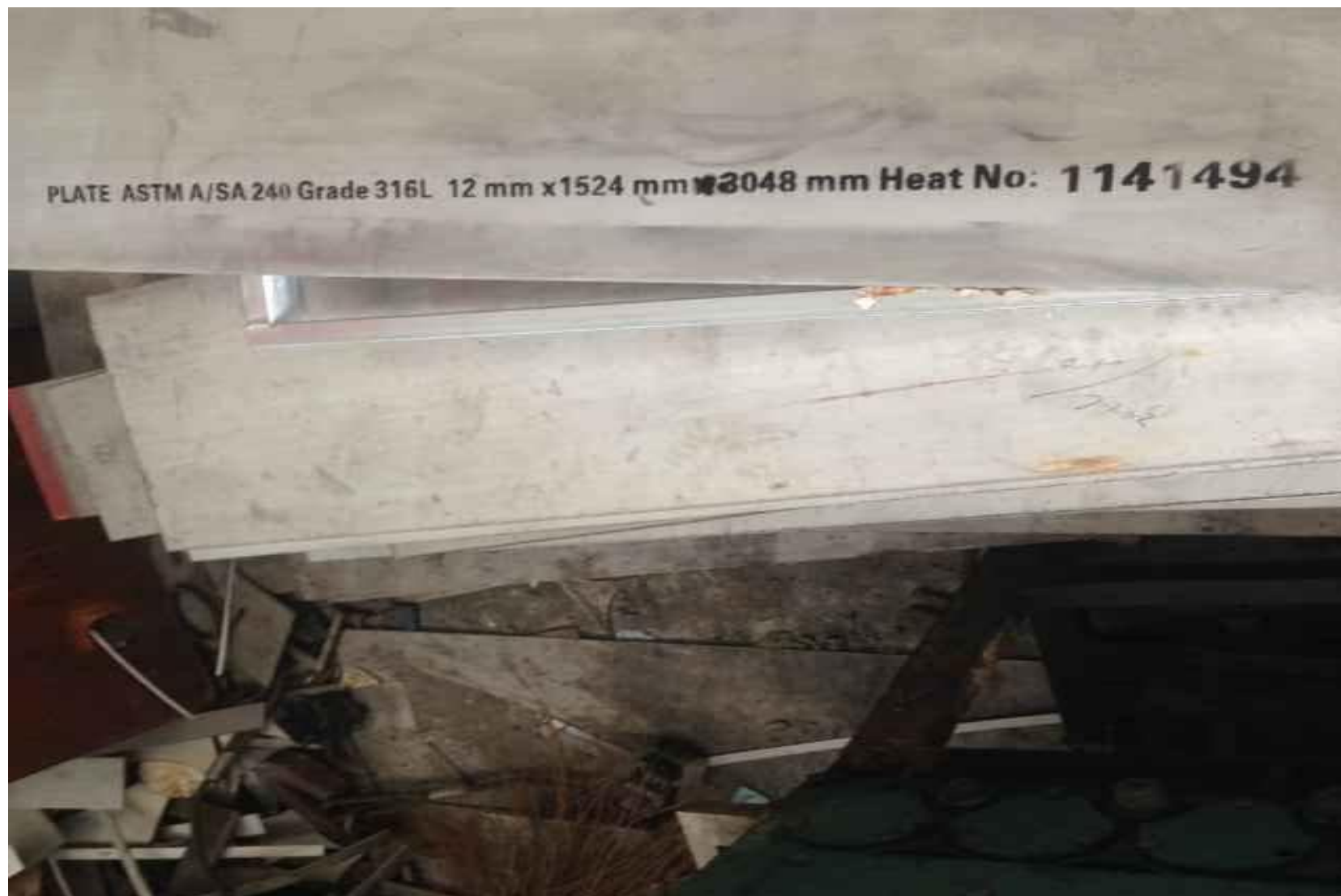
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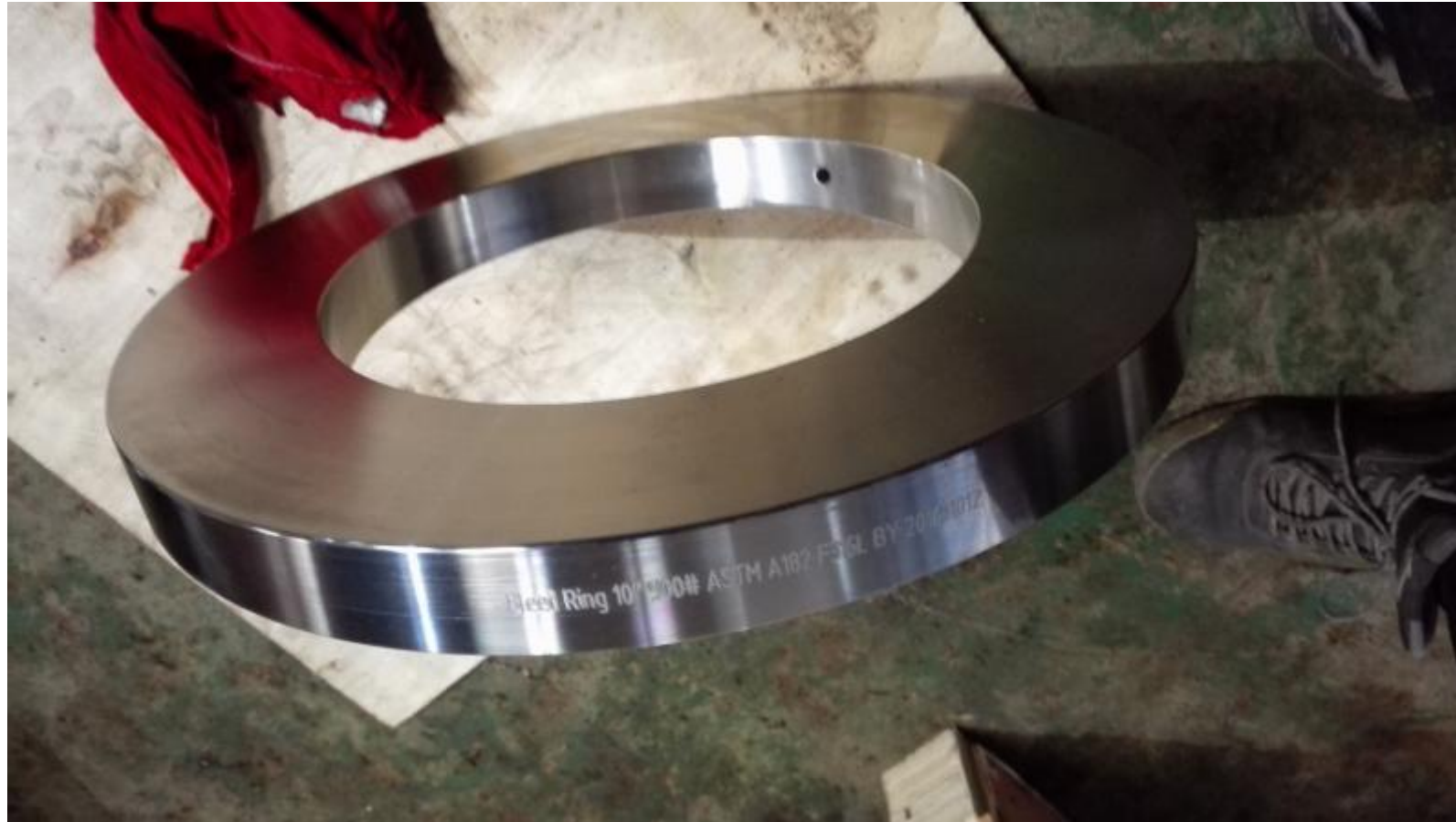
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