



NIAGARA
SPECIALTY METALS

MATERIAL CERTIFICATION

NJ STEEL BARON
TAG #2329

Production Order: 151463
Grade: 440-C ESR

Description:
440-ESR HRA DESCALED SHEARED SHEET
.140/.156 x 23/25" RW x 36.000" Ex.
Heat# G30372
Heat# N20966

Chemistry Analysis

Heat Number:		G30372		Hardness:			
Carbon:	1.020	Manganese:	0.720	Phosphorus:	0.022	Copper:	0.110
Silicon:	0.460	Chromium:	16.100	Vanadium:	0.050	Niobium:	0.010
Cobalt:		Molybdenum:	0.510	Nickel:	0.280	Nitrogen:	0.043
Sulphur:		Tungsten:		Titanium:		Aluminum:	0.010
Carbon:	1.020	Manganese:	0.720	Phosphorus:	0.022	Copper:	0.110
Silicon:	0.460	Chromium:	16.100	Vanadium:	0.050	Niobium:	0.010
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Remarks

Chemistry as per ASTM A-276, ASTM F899-12b

Country of origin: USA

Federal ID #: 16-1179936


General Manager/Quality

We provide material that is free from mercury contamination and radiation at the time of shipment. No weld repair is done.
We are compliant with EU directive 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1 and DFARS
252.225.7001,7002,7008,7009. Material is melted and manufactured in North America.

The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under federal statutes including Federal Law, Title 18, Chapter 47. The above are true and correct results of tests on samples of the material. Said results meet the specification(s) and are on record.