



NIAGARA
SPECIALTY METALS

MATERIAL CERTIFICATION

NJ STEEL BARON

Production Order: 158389

Grade: 440-C ESR

**Tags: 2643 / 2644 / 2645 / 2646 / 2647 / 2648
2649 / 2650 / 2651 / 2652 / 2653 / 2654
2656**

Description:

440-C ESR HRA DESCALED SHEARED SHEET
.140/.156" x 23/25" RW x 36.000" Ex. + Drops
Heat# G31802

Chemistry Analysis

Heat Number:	G31802	Hardness:		Hppm:	0.000
Carbon:	1.060	Manganese:	0.750	Phosphorus:	0.015
Silicon:	0.350	Chromium:	16.610	Copper:	0.080
Cobalt:	0.050	Vanadium:	0.110	Niobium:	0.010
Sulphur:	0.001	Nickel:	0.130	Nitrogen:	0.045
		Tungsten:	0.050	Aluminum:	0.010
		Titanium:	0.010		

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 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.