



MATERIAL CERTIFICATION

NIAGARA

SPECIALTY METALS

Customer: NJ STEEL BARON

Date of shipment: 05/26/2020

NJSB TAG NO. 442

Production Order: 127394

Grade: 440-C ESR

Description: 440-C ESR HRA DESCALED SHEARED SHEET
.140/.156 x 23/25" RW x 36.000" Ex.
Heat# N90949

Chemistry Analysis

NSM Heat Number:	N90949		Hardness:	<input type="text"/>	
Carbon:	<input type="text" value="1.060"/>	Manganese:	<input type="text" value="0.810"/>	Phosphorus:	<input type="text" value="0.017"/>
Copper:			<input type="text" value="0.080"/>	Niobium:	<input type="text" value="0.010"/>
Silicon:	<input type="text" value="0.270"/>	Chromium:	<input type="text" value="16.340"/>	Vanadium:	<input type="text" value="0.060"/>
Cobalt:	<input type="text"/>	Molybdenum:	<input type="text" value="0.500"/>	Nickel:	<input type="text" value="0.190"/>
Nitrogen:			<input type="text" value="0.044"/>	Aluminum:	<input type="text"/>
Sulphur:	<input type="text" value="0.001"/>	Tungsten:	<input type="text"/>	Titanium:	<input type="text"/>

Remarks

Chemistry as per SPECIFICATION;ASTM A-276
ASTM F899-12b
Country of origin: USA
Material received date: May 26, 2020
Original mill heat no: G27046

Federal ID #: 16-1179936

Robert Shabala

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.