



NIAGARA
SPECIALTY METALS

MATERIAL CERTIFICATION

12600 Clarence Center Road
Akron, NY 14001
716-542-5552
716-542-5555
Email: nsm@nsm-ny.com

Customer: NJ STEEL BARON

Date of shipment: 07/17/2020

Production Order: 128094

Grade: 440-C ESR

NJSB TAG NO. 488

Description: 440-C ESR HRA DESCALED SHEARED PLATE
.2071.227 x 22/25" 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"/>		
Silicon:	<input type="text" value="0.270"/>	Chromium:	<input type="text" value="16.340"/>	Vanadium:	<input type="text" value="0.060"/>
Niobium:			<input type="text" value="0.010"/>		
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"/>		
Sulphur:	<input type="text" value="0.001"/>	Tungsten:	<input type="text"/>	Titanium:	<input type="text"/>
Aluminum:			<input type="text"/>		

Remarks

Chemistry as per SPECIFICATION;ASTM A-276
ASTM F899-12b
Country of origin: USA
Material received date: March 24, 2020
Original mill heat no: G27046

Federal ID #: 16-1179936

Robert Shabala

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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.