



MATERIAL CERTIFICATION

NIAGARA
SPECIALTY METALS

Customer: NJ STEEL BARON

Date of shipment: 05/26/2020

Production Order: 127393

Grade: 154-CM

Description: 154-CM HRA DESCALED SHEARED PLATE
.140/.156 x 12.000" x 19.750" Ex. - Heat# NA13429
.140/.156 x 2.125" x 43.000" Ex. - Heat# NA13750
.140/.156 x 2.875" x 36.000" Ex. - Heat# NA13514
.140/.156 x 6.625" x 25.000" Ex. - Heat# NA13653
.140/.156 x 7.000" x 13.750" Ex. - Heat# NA13653
.140/.156 x 8.000" x 23.500" Ex. - Heat# NA13653

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.

Chemistry Analysis

NSM Heat Number: NA13653

Hardness:

Carbon: <input type="text" value="1.020"/>	Manganese: <input type="text" value="0.520"/>	Phosphorus: <input type="text" value="0.016"/>	Copper: <input type="text"/>
Silicon: <input type="text" value="0.370"/>	Chromium: <input type="text" value="13.450"/>	Vanadium: <input type="text"/>	Niobium: <input type="text"/>
Cobalt: <input type="text"/>	Molybdenum: <input type="text" value="3.930"/>	Nickel: <input type="text"/>	Nitrogen: <input type="text"/>
Sulphur: <input type="text" value="0.002"/>	Tungsten: <input type="text"/>	Titanium: <input type="text"/>	Aluminum: <input type="text"/>

Remarks

Country of origin: USA

Federal ID #: 16-1179936

Material received date: April 18, 2018

Original mill heat no: A13653

Robert Shabala

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Chemistry Analysis

NSM Heat Number: NA13750

Hardness:

Carbon: <input type="text" value="1.060"/>	Manganese: <input type="text" value="0.640"/>	Phosphorus: <input type="text" value="0.023"/>	Copper: <input type="text"/>
Silicon: <input type="text" value="0.400"/>	Chromium: <input type="text" value="13.520"/>	Vanadium: <input type="text"/>	Niobium: <input type="text"/>
Cobalt: <input type="text"/>	Molybdenum: <input type="text" value="4.020"/>	Nickel: <input type="text"/>	Nitrogen: <input type="text"/>
Sulphur: <input type="text" value="0.003"/>	Tungsten: <input type="text"/>	Titanium: <input type="text"/>	Aluminum: <input type="text"/>

Remarks