



NIAGARA
SPECIALTY METALS

MATERIAL CERTIFICATION

12600 Clarence Center Road
Akron, NY 14001

NJSB TAG NO. 487

Date of shipment: 07/17/2020

Production Order: 128093

Grade: 440-C ESR

Description: 440-C ESR HRA DESCALED SHEARED SHEET
.172/.188 x 22/25" x 36.000" Ex.
Heat# N90949

Chemistry Analysis

NSM Heat Number: N90949

Hardness:

Carbon:	1.060	Manganese:	0.810	Phosphorus:	0.017	Copper:	0.080
Silicon:	0.270	Chromium:	16.340	Vanadium:	0.060	Niobium:	0.010
Cobalt:		Molybdenum:	0.500	Nickel:	0.190	Nitrogen:	0.044
Sulphur:	0.001	Tungsten:		Titanium:		Aluminum:	

Remarks

Chemistry as per SPECIFICATION;ASTM A-276

ASTM F899-12b

Country of origin: USA

Material received date: April 23, 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.