



# MATERIAL CERTIFICATION

**NIAGARA**  
SPECIALTY METALS

**NJ STEEL BARON TAG  
#1006**

Production Order: 137898

Grade: CPM CRUWEAR

Description: CPM CRUWEAR HRA DESCALED SHEARED  
SHEET  
.103/.113 x 23/25" RW x 36.000" Ex.  
Heat# NP70903  
Heat# NP62239

## Chemistry Analysis

NSM Heat Number: NP62239

Hardness:

Carbon:	<input type="text" value="1.130"/>	Manganese:	<input type="text" value="0.400"/>	Phosphorus:	<input type="text" value="0.017"/>	Copper:	<input type="text"/>
Silicon:	<input type="text" value="1.260"/>	Chromium:	<input type="text" value="7.780"/>	Vanadium:	<input type="text" value="2.380"/>	Niobium:	<input type="text"/>
Cobalt:	<input type="text" value="0.140"/>	Molybdenum:	<input type="text" value="1.670"/>	Nickel:	<input type="text" value="0.190"/>	Nitrogen:	<input type="text"/>
Sulphur:	<input type="text" value="0.013"/>	Tungsten:	<input type="text" value="1.180"/>	Titanium:	<input type="text"/>	Aluminum:	<input type="text"/>

## Remarks

Chemistry as per CI SPECIFICATION REV-1

Country of origin: USA

Material received date: September 10, 2014

Original mill heat no: P62239

Federal ID #: 16-1179936

*Robert Shabala*

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.

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.

## Chemistry Analysis

NSM Heat Number: NP70903

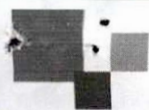
Hardness:

Carbon:	<input type="text" value="1.090"/>	Manganese:	<input type="text" value="0.390"/>	Phosphorus:	<input type="text" value="0.013"/>	Copper:	<input type="text"/>
Silicon:	<input type="text" value="1.240"/>	Chromium:	<input type="text" value="7.760"/>	Vanadium:	<input type="text" value="2.380"/>	Niobium:	<input type="text"/>
Cobalt:	<input type="text"/>	Molybdenum:	<input type="text" value="1.660"/>	Nickel:	<input type="text"/>	Nitrogen:	<input type="text"/>
Sulphur:	<input type="text" value="0.011"/>	Tungsten:	<input type="text" value="1.170"/>	Titanium:	<input type="text"/>	Aluminum:	<input type="text"/>

## Remarks

Chemistry as per CI SPECIFICATION REV-1

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SHEET  
.103/.113 x 23/25" RW x 36.000" Ex.  
Heat# NP70903  
Heat# NP62239

Country of origin: USA

Material received date: December 02, 2021

Original mill heat no: P70903

Federal ID #: 16-1179936

Robert Shabala

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252.225.7001,7002,7008,7009. Material is melted and manufactured in North America.

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