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PRODUCT CERTIFICATION

MFG LOT NBR: **JQ1561-530952**
 HEAT NUMBER: **JQ1561**
 BILL OF LADING: **00658641**
 SALES ORDER/LINE: **294534 / 013**
 CERT ID / REV: **00493570 / 01**

SOLD TO

SHIP TO

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	BUNDLE(S)	TOTAL PIECES	GRADE	SHIPMENT DATE
4500587171	N/A	14,601	3	312	A36/A529	02/24/2025

PART NUMBER: BA002262000ZZ	DESCRIPTION: Angle 1 1/2 x 1 1/2 x 1/4 20"0" A36/A529
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Alt Certs

ASTM A36/A36M-19 | ASTM A36/A36M-19 CU BEARING | ASTM A529/A529M-19 GR50 | ASTM A572/A572M-21 GR50 Type 2 | ASTM A576-17 1019 | ASTM A576-17 1022 | ASTM A709/A709M-21 GR36 | ASTM A709/A709M-21 GR36 CU BEARING | ASTM A709/A709M-21 GR50 Type 2 | CSA G40.21-13 GR44W | CSA G40.21-13 GR50W | AASHTO M270/M270M-20 GR36 | AASHTO M270/M270M-20 GR36 CU BEARING | AASHTO M270/M270M-20 GR50 Type 2 | ASME SA36/SA36M-19 (01JUL19) | ASME SA572/572M-17 GR50T2 (01JUL19)

Chemical

C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	Nb	CE
0.18	0.92	0.022	0.006	0.22	0.09	0.08	0.02	0.22	0.021	0.001	0.42

Yield Tensile Elongation

Sample	Yld-1 (KSI)	Yld-1 (MPa)	Ultimate-1 (KSI)	Ultimate-1 (MPa)	Elong8" (%)
Sample-1	54.0	372	75.0	517	25
Sample	Yld-2 (KSI)	Yld-2 (MPa)	Ultimate-2 (KSI)	Ultimate-2 (MPa)	Elong8" (%)
Sample-2	54.0	372	74.0	510	25

Approved ABS QA Mill. Certificate Nos. QA-5138616 and STML T2243895. This Material was melted and manufactured in our plant located in Roanoke, VA, USA, by basic Electric Furnace process(es) to meet the "ordered" Grade. Mercury, Radium or other Alpha source materials in any form have not been used in the production of this material. No Weld repair has been performed. Any tensile values stated herein either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. All samples tested are full size and in an "as-rolled" condition. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.

This is to certify the above to be a true and accurate report as contained in the records of this company.

END OF CERTIFICATION

Metallurgist: Jacob Nott