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PRODUCT CERTIFICATION

MFG LOT NBR
JO3290-114309
BILL OF LADING
00605476

HEAT NUMBER
JO3290
SALES ORDER/LINE
227984 / 001
CERT ID / REV
00328289 / 01

CUSTOMER P.O. 44074	CUSTOMER PART N/A	QUANTITY 25,970	BUNDLE(S) 5	TOTAL PIECES 265	GRADE A36/A529	SHIPMENT DATE 03/15/2022					
PART NUMBER : SA006512000ZZ		DESCRIPTION : StrAngle 3 x 3 x 1/4 20'0" A36/A529									
Alt Certs											
ASTM A36/A36M-19 ASTM A36/A36M-19 CU BEARING ASTM A529/A529M-19 GR50 ASTM A572/A572M-18 GR50 Type 2 ASTM A709/A709M-18 GR36 ASTM A709/A709M-18 GR36 CU BEARING ASTM A709/A709M-18 GR50 Type 2 CSA G40.21-13 GR44W CSA G40.21-13 GR50W AASHTO M270/M270M-15 GR36 AASHTO M270/M270M-15 GR36 CU BEARING AASHTO M270/M270M-15 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
0.14	1.00	0.032	0.006	0.23	0.10	0.12	0.03	0.38	0.019	0.002	0.40
Yield Tensile Elongation											
	Yld-1 (KSI)	Yld-1 (MPa)	Ultimate-1 (KSI)	Ultimate-1 (MPa)	Elong8" (%)						
Sample-1	56.0	386	77.0	531	31						
	Yld-2 (KSI)	Yld-2 (MPa)	Ultimate-2 (KSI)	Ultimate-2 (MPa)	Elong8" (%)						
Sample-2	54.0	372	76.0	524	30						
<p>Approved ABS QA Mill. Certificate Nos. QA-3296984 and STML T1628063. 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.</p> <p>This is to certify the above to be a true and accurate report as contained in the records of this company.</p>											
END OF CERTIFICATION						<u>Metallurgist: Zach Schiemann</u>					