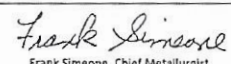


ISO 9001:2015 IATF 16949:2016

CUSTOMER:		SPECIFICATIONS(S): ASTM A513 2019		CUSTOMER ORDER NO.: P930430-423		SHELBY ORDER NO.: 548988 VR		PAGE 01 OF 01												
PRINT NO.:		CUSTOMER PART NO.: 112332		NDT PER ASTM E570		NDT		MELT SOURCE AM CLEVELAND												
GRADE 1026		SIZE (O.D. X I.D. X WALL) 3.500 X 2.250 X .625		QUANTITY 13436 LB		30 PC		SHIPPED DATE: 07/05/2019												
AM-SHELBY ITEM NO: 50002422		PRODUCT DESCRIPTION: EW DOM		STRESS RELIEVE ANNEAL		TODAY'S DATE: 07/05/2019		S# 00438475												
CHEMICAL COMPOSITION (% WEIGHT)																				
Heat No.	Sample	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Al	Sn	Ca	O	N	Ti	B	Cb	
9518882	Heat	0.26	0.65	0.008	0.004	0.02	0.01	0.04		0.04	0.001	0.044	0.006	0.0038		0.0042	0.002	0.0001		
MECHANICAL PROPERTIES																				
Tensile Properties																				
Heat No.	Bundle No.	Yield Strength	Units	Method	Yield Strength	Units	Method	Tensile Strength	Units	%Elongation	% Reduction	Hardness								
9518882	T7859895	87800	PSI	0.20%OFF				100300	PSI	20		HBW	HRBW	HRC						
Charpy Impact Properties																				
Size	Orientation (Test direction)	Temp.	Energy 1st	Energy 2nd	Energy 3rd	Energy Avg.	Energy Units													
METALLURGICAL PROPERTIES																				
Jominy Hardenability (EXPRESSED IN 16THS)										Magflux										
Heat No.	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24	28	32	Freq	Sev.
Test position	AT		AH		BT		BH		CT		CH		DT		DH					
Hot Reduction Ratio		12.9:1																		
OTHER INSPECTION Melted and Manufactured in USA										THIS TEST REPORT NOTARIZED WHEN REQUIRED										
100% NDT TESTED										SWORN AND SUBSCRIBED BEFORE ME										
NON-DESTRUCTIVE TESTED										THIS DAY OF										
EN 10204 3.1										NOTARY PUBLIC										
										 Frank Simeone, Chief Metallurgist Frank.Simeone@Arcelormittal.com										
MATERIAL PRODUCED TO THE SPECIFICATION(S) SHOWN ABOVE. NO ADDITIONAL SPECIFICATION(S) IS IMPLIED OR WARRANTED. THIS TEST REPORT SHALL NOT BE ALTERED OR REPRODUCED EXCEPT IN FULL. PRODUCTS DO NOT CONTAIN MERCURY OR COME IN CONTACT WITH MERCURY BEARING INSTRUMENTS OR PROCESSING CHEMICALS. MATERIAL HAS NO REPAIRS BY WELDING.																				

P.O. # 6059

Part # 03-FM X01-DEFSCH 3

Description: 3" Default Schedule (80)
 ANSI RF, 316 SS/cs Static Mixer

3NPS SLEEVE FOUR

ANS