

AM/NS Calvert LLC

1 AM/NS Way
Calvert, Al. 36513 USA



CUSTOMER ORIGINAL

Mill Certificate

Order - Item 169828-10	Certificate Number 1184279930	Delivery No 82120771-10	Ship Date 03/02/2019	Page 1 of 1						
Customer No: 15141		Cust PO: 314470								
Customer Part No:										
Customer Sold to: North Shore Supply Co. Inc DBA North Shore Steel 1566 Miles Street HOUSTON TX 77015 USA		Customer Ship to: Greens Bayou Pipe Mill c/o Bayou Processing and Storage Slip A HOUSTON TX 77015 USA		Contact - Stan Bevans AM/NS Calvert LLC 1 AM/NS Way CALVERT AL 36513 USA Email: Stanley.Bevans@ArcelorMittal.com Ph : 1-251-289-3000						
Steel Grade / Customer Specification Hot Roll Black Coil Conv to A36 / 0.1770 " X 48.0000 " ACCORDING TO A1011 {Light < 0.230"(6.0 mm)}-Hot Roll Base										
Type of Product/Surface Hot Roll Black Coil Exposed CUT TO LENGTH										
TEST METHOD	Melted in Brazil		Manufactured in USA							
ASTM										
MATERIAL DESCRIPTION										
	ORDERED	Heat No.	Coil No.	Weight Net LB	Weight Gross LB					
(mm)	4.496	3696079	1184279930	46,539.000	46,539.000					
(in)	0.1770									
CHEMICAL COMPOSITION OF THE LADLE *										
Heat No.	C	Si	Mn	P	S	Al	Cr	Cu	Mo	N
3696079	0.1965	0.02	0.88	0.016	0.006	0.054	0.02	0.011	0.001	0.0042
	Ni	Nb	Ti	B	V	Ca				
	0.006	0.000	0.002	0.0000	0.000	0.0002				
TENSILE TEST										
Test Direction	Yield Strength	Tensile Strength	% Total Elong.							
T	53 ksi	73 ksi	32							

AM/NS Calvert LLC certify that the material herein described has been manufactured, sampled, tested and inspected in accordance with the contract requirements and is fully in compliance.

* - This test is not covered by our current A2LA accreditation

Yasunori Iwasa
Quality Management Director
AM/NS Calvert