

AM/NS Calvert LLC

1 AM/NS Way
Calvert, Al. 36513 USA



Mill Certificate

CUSTOMER ORIGINAL

Order - Item 151613-330	Certificate Number 1178511430	Delivery No 81850409-10	Ship Date 05/09/2018	Page 1 of 1
Customer No: 14552		Cust PO: AMMEX00553		
Customer Part No: 33-				
Customer Sold to: ArcelorMittal Mexico SA de CV Francisco J Mugica 1 G Centro 60950 LAZARO CARDENAS MEXICO		Customer Ship to: ArcelorMittal Mexico SA de CV Administracion Portuaria Integral Edificio API Tampico S/N 89000 TAMPICO MEXICO		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 A572 Grade 50[345] / 0.1880 " X 60.0000 " ACCORDING TO A1011 {Light < 0.230"(6.0 mm)}-Hot Roll Base				
Type of Product/Surface Hot Roll Black Coil Unexposed COMMERCIAL APPLICATION				

TEST METHOD	Melted in Mexico		Manufactured in USA							
ASTM										
MATERIAL DESCRIPTION										
	ORDERED	Heat No.	Coil No.	Weight Net LB	Weight Gross LB					
(mm)	4.775	1830881	1178511430	51,367.000	51,367.000					
(in)	0.1880									
CHEMICAL COMPOSITION OF THE LADLE *										
Heat No.	C	Si	Mn	P	S	Al	Cr	Cu	Mo	N
1830881	0.0540	0.02	0.85	0.007	0.004	0.045	0.01	0.004	0.000	0.0028
	Ni	Nb	Ti	B	V	Ca				
	0.008	0.032	0.001	0.0000	0.004	0.0017				
TENSILE TEST										
Test Direction	Yield Strength	Tensile Strength	% Total Elong.							
T	71 ksi	74 ksi	30							

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

Rev.