



MILL TEST REPORT

PRODUCT: 2" C80 ASTM A-53-A / NMX B-177
FINISHING: TUBO BARNIZADO CON EXTREMO LISO

CUSTOMER: PLESA ANAHUAC Y CIAS S.A. DE C.V.

SHIPPING DATE: 24/03/20

INVOICE: FT-44016

PURCHASE ORDER: 1200349548

TRANSPORT/ TRANSPORTE:

S.T.V.

MANUFACTURER/ PLANTA: LAMINA Y PLACA COMERCIAL S.A DE C.V.
RAW MATERIAL MAKER/FABRICANTE MATERIA PRIMA-AHMSA MEXICO
DIEGO DIAZ DE BERLANGA, NO. 1002 SUR
SAN NICOLAS DE LOS GARZA, NUEVO LEON, MEXICO

THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1
I HEREBY CERTIFY THAT THE PRODUCT ACCOMPLISHED WITH THE SPECIFICATION TO THE INVOICE AND/ OR REMISSION
(DATABASE OF SYSTEM).

ESTE CERTIFICADO ES EMITIDO SEGUN EN 10204 3.1
ESTE PRODUCTO FUE FABRICADO BAJO LA NORMA QUE SE DESCRIBE HACIENDO CUMPLIR LOS REQUERIMIENTOS DE LA
ESPECIFICACION (BASE DE DATOS DEL SISTEMA).

PROCESS : HF™

MANUFACTURING INFORMATION/ INFORMACION DE MANUFACTURA				DIMENSIONS (DIMENSIONES)			
DATE	ORDER (No. OP)	GRADE	MANUFACTUR E PROCESS	HEAT TREATMENT	OUTSIDE DIAMETER (IN)	THICKNESS (MM (IN))	LENGTH (MTS (FT))
24/09/19	0-041	A	E	N/A	2.375"	0.218"	6.40

ONLINE TESTS (PRUEBAS DE CAMPO)								
HEAT NUMBER (COLADA)	HYDROSTATIC TEST BAR (PSI)	DELIVERY CONDITION	TIME (Sec.)	NON-DESTRUCTIVE TEST (PND)	METALLOGRAPHY TEST	BENDING TEST	FLATTENING TEST	VISUAL INSPECTION
200329	2514	AS ROLLED	5	EDDY CURRENT	N/A	N/A	OK	OK

CHEMICAL ANALYSIS (ANALISIS QUIMICOS)/ MECHANICAL PROPERTIES (PROPIEDADES MECANICAS)									
HEAT NUMBER (COLADA)	%C	%Mn	%P	%S	%Si	%Cr	%Mo	%Ni	%Cu
200329	0.1700	0.8500	0.0100	0.0050	0.1200	0.0190	0.0040	0.0210	0.0150
%Nb	%Sn	%Ti	%V		YIELD ST MPA (PSI)	TENSILE ST MPA (PSI)	% ELONG	HARDNESS (HRB)	CARBON EQUIVALENT %
0.0010		0.0010	0.0020		55393	76416	35.000	78	N/A

CHARPY TEST (PRUEBA CHARPY)				
HEAT IDENT NUM	ABSORBED ENERGY MTS-KG (FT-LB)			AVERAGE TEMPERATURE TEST °C
	1	2	3	
200329	N/A	N/A	N/A	N/A

NOTE: THE SUM OF THE NIOBIUM, VANADIUM AND TITANIUM CONCENTRATIONS SHALL BE \leq 0.15%
NOTA: LA SUMA DE LA CONCENTRACION DE NIOBIO, VANADIO Y TITANIO DEBE SER \leq 0.15%

I HAVE PERSONAL KNOWLEDGE AS TO ACCURACY OF THE ABOVE INFORMATION, AND HAVE AUTHORITY TO SIGN ON BEHALF OF THE COMPANY.
TENGO EL CONOCIMIENTO Y AUTORIZACION EN NOMBRE DE LA COMPAÑIA PARA AVALAR ESTA INFORMACION.

SINCERELY

Ing. Erick Maximino Dávila García

QUALITY ASSURANCE MANAGER