

INSPECTION CERTIFICATE Certificato d'ispezione



REPORT N. Rapporto N.		TC-010356-13-0004		Issued on Emesso il		20/05/2013		Customer Cliente		PROVEEDORA DE MATERIALES ANGER MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. 66490, MEXICO				Job n. Commessa n.		10356										
Revision Revisione		0		According to In accordo a		EN 10204:2005		Type Tipo		3.1		Purchase order Ordine		301												
DESCRIPTION / DESCRIZIONE																										
Test Prova	Item Pos.	Qty Q.tà	Customer code Codice cliente		Material Materiale		Heat Colata		Product Prodotto																	
VNXS	80	10			ASTM A105/11		12/72080		BUSHING M/F NPT A/SA105N 3x2																	
UHSR	35	1200	•		ASTM A105/11		03870		UNION S. 3000 NPT A/SA105N 1 male																	
UHSR	35	1200	•		ASTM A105/11		03870		UNION S. 3000 NPT A/SA105N 1 female																	
PHSL	35	1200	•		ASTM A105/09		AD1211		UNION S. 3000 NPT A/SA105N 1 nut																	
Test Prova	HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES / Dettagli di trattamento termico e riferimenti ad altri certificati																									
VNXS	STEEL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.12490.MEGA/I*589778MEGA																									
UHSR	STEEL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10129+10128.METALMECCANICA LOMBARDA*586802MEGA																									
UHSR	STEEL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10129+10128.METALMECCANICA LOMBARDA*586802MEGA																									
PHSL	STEEL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10189+10187+10193+10194.MET.LOMBARDA*573643MEGA*																									
Test Prova	Test loc. Preso a	Orient. Direz.	TENSILE TEST / Trazione				CVN (KV) / Prova di resilienza				Bend Piega	Flatten. Schiacc.	Hardness Durezza [HBN]													
			Specimen / Provino		Yield strength	Tensile strength	Elongation	Red. Of Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp													
			Shape Forma	A [mm ²] Sezione	L [mm] Lungh.	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]												
VNXS	T/2	LONG	Round	29,800	25,000	293,900	491,600	37,500	73,800	10x10x55	0	84-110-88	--	--	144-146											
UHSR	T/2	LONG	Round	30,600	25,000	302,000	524,000	32,200	68,800	10x10x55	0	40-52-50	--	--	146-152											
UHSR	T/2	LONG	Round	30,600	25,000	302,000	524,000	32,200	68,800	10x10x55	0	40-52-50	--	--	146-152											
PHSL	T/2	LONG	Round	30,600	25,000	303,000	527,000	32,200	69,500	10x10x55	0	34-46-44	--	--	143-149											
Test Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	Co [%]	Nb [%]	N [%]	Sn [%]	W [%]	B [%]	Fe [%]	Zr [%]	CE ¹ [%]	PREN ² [%]	X fact. ³ [%]	J fact. ⁴ [%]		
VNXS	0,1800	0,2400	0,9000	0,0080	0,0150	0,1900	0,0600	0,0100	0,0200	0,1800	0,0180	0,0260		0,0010		0,0100						0,3896				
UHSR	0,2050	0,2400	0,9000	0,0020	0,0050	0,1200	0,1100	0,0200	0,0028	0,1500	0,0020	0,0200	0,0100	0,0010		0,0010		0,0001				0,4007				
UHSR	0,2050	0,2400	0,9000	0,0020	0,0050	0,1200	0,1100	0,0200	0,0028	0,1500	0,0020	0,0200	0,0100	0,0010		0,0010		0,0001				0,4007				
PHSL	0,1950	0,2800	0,9800	0,0060	0,0080	0,0900	0,1100	0,0300		0,1200	0,0020	0,0280										0,3980				
REMARKS / Note																										
1: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15																										
2: PREN = Cr + 3.3Mo + 16N																										
3: X factor = (10P + 5Sb + 4Sn + As)/100 - elements expressed in ppm																										
4: J factor = ((Mn + Si) / (P + Sn)) x 10 ⁴																										
5: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed 2009																										
																	Quality control laboratory					Emmanuel Centemeri				
																	Laboratorio controllo qualità									

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trademark M.E.G.A. is printed in green color.

Form QC-01-01 Rev. 0 2013-03-15