

INSPECTION CERTIFICATE Certificato d'ispezione



REPORT N. Rapporto N.	TC-010356-13-0012	Issued on Emesso il	22/06/2013	Customer Cliente	PROVEEDORA DE MATERIALES ANCR SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	Job n. Commissa 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
VDFA	38	282		ASTM A105/11	1T 53595	UNION S. 3000 NPT A/SA105N 2 male
VDFB	38	282		ASTM A105/11	1T 53595	UNION S. 3000 NPT A/SA105N 2 female
VDFC	38	632		ASTM A105/11	1T 53595	UNION S. 3000 NPT A/SA105N 2 nut
VTNC	38	793		ASTM A105/11	P4121249842	UNION S. 3000 NPT A/SA105N 2 male
VTNF	38	609		ASTM A105/11	P4121249842	UNION S. 3000 NPT A/SA105N 2 female

Test Prova	HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES / Dettagli di trattamento termico e riferimenti ad altri certificati					
VDFA	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.2012/0040105.FEAT*					
VDFB	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.2012/0040103.FEAT*					
VDFC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.2012/0040104.FEAT*					
VTNC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.2012/0040295.FEAT*590283MEGA*					
VTNF	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.2012/0040297.FEAT*590283MEGA*					

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 Snerv. [Mpa] Min:	Tensile strength Rottura [Mpa] Min:	Elongation Allung. [%] Min:	Red. Of Area Contraz. [%] Min:	Dimens. Dimens. [mm]	T Temp. [°C]	Abs. Energy Energia ass. [J]	Shear A Area d [%]	Lat Exp Esp. Lat. [mm]			
			Shape Forma	A [mm²] Sezione	L [mm] Lungh.												
VDFA	T/2	LONG	Round	30,500	25,000	275,000	486,000	29,700	54,400	10x10x55	0	82-90-92	..	..	140-140
VDFB	T/2	LONG	Round	30,500	25,000	275,000	486,000	29,700	54,400	10x10x55	0	86-92-92	..	..	140-140
VDFC	T/2	LONG	Round	30,500	25,000	275,000	486,000	29,700	54,400	10x10x55	0	82-88-104	..	..	140-140
VTNC	T/2	LONG	Round	30,400	25,000	288,400	504,200	30,200	61,900	10x10x55	0	102-112-114	..	..	143-147
VTNF	T/2	LONG	Round	30,400	25,000	282,200	499,700	31,100	59,400	10x10x55	0	92-98-106	..	..	144-148

Test Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	Co [%]	Nb [%]	N [%]	Sn [%]	W [%]	B [%]	Fe [%]	Zr [%]	CE ^A [%]	PREN ^B [%]	X fact. ^C [%]	J fact. ^D [%]	
VDFA	0,1800	0,1700	0,8200	0,0090	0,0130	0,0600	0,1300	0,0300		0,2600	0,0300			0,0030								0,3666			
VDFB	0,1800	0,1700	0,8200	0,0090	0,0130	0,0600	0,1300	0,0300		0,2600	0,0300			0,0030								0,3666			
VDFC	0,1800	0,1700	0,8200	0,0090	0,0130	0,0600	0,1300	0,0300		0,2600	0,0300			0,0030								0,3666			
VTNC	0,1800	0,2400	0,8200	0,0090	0,0130	0,1600	0,0260	0,0050		0,0380	0,0020			0,0020								0,3543			
VTNF	0,1800	0,2400	0,8200	0,0090	0,0130	0,1600	0,0260	0,0050		0,0380	0,0020			0,0020								0,3543			

REMARKS / Note	
1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1 2 3 Ed 2009	A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N C: X factor = (10P + 5Sb + 4Sn + As)/100 - elements expressed in ppm D: J factor = ((Mn + Si) / (P + Sn)) x 104
Quality control laboratory Laboratorio controllo qualità	Emmanuel Centemeri

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