

## INSPECTION CERTIFICATE

Certificato di ispezione



REPORT N. TC-010356-13-0010		Issued on Emesso il		Customer		Job n.		Page n.																																									
Rapporto N. 0		According to In accordo a		SA DE CV, AV ADOLFO LOPEZ		10356		4 of 6																																									
Revisione		EN 10204:2005		MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO		Purchase order Ordine		301																																									
Type Tipo		3.1		DESCRIPTION / DESCRIZIONE		Product Prodotto																																											
Test Prova		Item Pos.		Qty Qtà		Customer code Codice cliente		Material Materiale																																									
URFN		91		41				ASTM A105/12																																									
URXF		91		40				ASTM A105/12																																									
UTDB		91		194				ASTM A105/12																																									
VCXN		91		30				ASTM A105/12																																									
VRSD		91		81				ASTM A105/12																																									
HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES / Detagli di trattamento termico e riferimenti ad altri certificati																																																	
URFN: MATERIAL PRODUCED BY ELECT-FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 11364.MEGA/*576777MEGA																																																	
URXF: MATERIAL PRODUCED BY ELECT-FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 11861.MEGA/*582981MEGA																																																	
UTDB: MATERIAL PRODUCED BY ELECT-FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 12153.MEGA/*586197MEGA																																																	
VCXN: MATERIAL PRODUCED BY ELECT-FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 24455-57.EVASI*591103MEGA																																																	
VRSD: MATERIAL PRODUCED BY ELECT-FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 24455-57.EVASI*591103MEGA																																																	
TENSILE TEST / Trazione																																																	
Test Prova		Test loc. Preso a		Orient. Direz.		Specimen / Provino		Yield strength		Tensile strength		Elongation		Red. Of Area		Dimens.		T		Abs. Energy		Shear A		Lat Exp*		Bend		Flatten.		Hardness																			
						Shape Forma		Min: Min:		Min: Min:		Min: Min:		Min: Min:		Min: Min:		Temp. [°C]		Energia ass. [J]		Area d [mm²]		Esp. Lat. [mm]		Piega Schiacc.		Durezza [HRB]																					
URFN		T/2		LONG		Round		30,800		25,000		398,000		495,500		38,300		73,900		152-160-150		-		-		-		141-143																					
URXF		T/2		LONG		Round		30,700		25,000		337,500		526,000		34,800		62,400		47-38-69		-		-		-		145-149																					
UTDB		T/2		LONG		Round		30,800		25,000		316,200		515,600		32,300		53,000		71-53-68		-		-		-		142-146																					
VCXN		T/2		LONG		Round		30,900		25,000		309,000		519,500		35,700		61,300		76-77-126		-		-		-		144-146																					
VRSD		T/2		LONG		Round		30,600		25,000		306,600		494,700		42,100		70,800		147-152-168		-		-		-		148-150																					
Test Prova		C [%]		SI [%]		Mn [%]		S [%]		P [%]		Cr [%]		Ni [%]		Mo [%]		Ti [%]		Cu [%]		V [%]		Al [%]		Co [%]		Nb [%]		N [%]		Sn [%]		W [%]		B [%]		Fe [%]		Zr [%]		CE <sup>A</sup> [%]		PREN <sup>B</sup> [%]		X fact. C [%]		J fact. D [%]	
URFN		0,1800		0,2100		1,0700		0,0030		0,0130		0,1000		0,0900		0,0800		0,0100		0,0030		0,0310		0,0025		0,0090		0,0090		0,0090		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080			
URXF		0,1850		0,2300		0,8800		0,0030		0,0100		0,1500		0,0500		0,0100		0,0180		0,1700		0,0190		0,0280		0,0020		0,0090		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080					
UTDB		0,1800		0,2400		0,8600		0,0080		0,0120		0,1100		0,0700		0,0200		0,0160		0,1700		0,0160		0,0250		0,0010		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080					
VCXN		0,2000		0,2400		0,9200		0,0030		0,0140		0,0800		0,0500		0,0100		0,0200		0,1400		0,0200		0,0280		0,0020		0,0100		0,0100		0,0100		0,0100		0,0100		0,0100		0,0100		0,0100		0,0100					
VRSD		0,1700		0,1900		0,8500		0,0090		0,0120		0,1000		0,0500		0,0100		0,0210		0,1400		0,0160		0,0240		0,0010		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080		0,0080					
REMARKS / Note										A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15   B: PREN = Cr + 3·Mo + 16N										C: X factor = (10P + 55b + 45n + As) / 100 - elements expressed in ppm										D: J factor = ((Mn + Si) / (P + Sn)) x 104																			
Laboratorio controllo qualità										Egmannel Centermeri										Form QC-01-01 Rev. 0 2013-03-15																													

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.

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