

ISO 9001:2008

M.E.G.A.

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
 WITH QUALITY SYSTEM
 CERTIFIED BY DNV
 ISO 9001

CLIENTE
 Customer
 Client

PROVEEDORA DE MATERIALES ANGER
 SA DE CV, AV ADOLFO LOPEZ
 MATEOS 150, COL LAGRANGE,
 SAN NICOLAS DE LOS GARZA, N.L.

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DATA / Date 06/05/13

COMMESSA Job N° 10356
 Command / Commande

ORINE Purchase order
 Commande 301

PROVA Test / Epreuve	MATERIALE Material / Matière	CDATA Heat / Equipé	C %	S %	Mn %	Si %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
PHSN	ASTM A105/09	08/74332	0.185	0.220	1.000	0.013	0.012	0.090	0.050	0.010	0.010	0.180	0.002	0.021	0.387
			--->	Nb % = 0.000		B % = 0.000		Sn % = 0.008							CE s % = 0.3517
PKBD	ASTM A105/09	05/77257	0.185	0.200	0.900	0.008	0.013	0.090	0.050	0.010	0.017	0.160	0.017	0.020	0.372
			--->	Nb % = 0.000				Sn % = 0.006		B % = 0.000					CE s % = 0.335
PLDF	ASTM A105/05	08/74333	0.195	0.250	0.980	0.009	0.014	0.110	0.050	0.010	0.017	0.180	0.002	0.017	0.398
			--->	Nb % = 0.000		B % = 0.000									CE s % = 0.3583
PLRU	ASTM A105/05	09/78809	0.200	0.190	0.900	0.009	0.011	0.100	0.060	0.010	0.023	0.140	0.020	0.024	0.389
			--->	Nb % = 0.001		B % = 0.000		Sn % = 0.008							CE s % = 0.350
PNBX	ASTM A105/05	08/76621	0.185	0.170	0.900	0.006	0.014	0.080	0.050	0.010	0.019	0.160	0.017	0.024	0.370
			--->	Nb % = 0.000				Sn % = 0.007		B % = 0.000					CE s % = 0.335
PNWR	ASTM A105/09	021385 ML-EE	0.180	0.307	0.999	0.017	0.020	0.122	0.018	0.008	0.000	0.020	0.003	0.001	0.375
			--->	Nb % = 0.006		N % = 0.000				As % = 0.000					CE s % = 0.3465

PROVA Test / Epreuve	PROVETTA Test specimen / Echantillon		SNERVAMENTO Yield strength / Limite d'élasticité	ROTTURA Tensile strength / Rupture	ALLUNGAMENTO Elongation / Allongement	CONTRAZIONE Reduction of area / Striction	DUREZZA HB Hardness / Dureté	PIEGA Bend test / Pliage	SCHIACC. Flat test / Aplatisse	RESILIENZA Impact test / Résilience			
	SEZIONE Section / Sect	LUNGHEZZA Length / Longueur								UNITA' MIS. Unit / Unité	TIP. Type	T °C Test temp.	VALORE / Value / Nombre
PHSN	1	30.6 25.0	315.0	540.0	29.5	66.9	143-156			J	KV	0	56-42-50
PKBD	1	30.6 25.0	313.0	534.0	29.3	67.2	149-156			J	KV	0	46-58-56
PLDF	1	30.6 25.0	342.0	544.0	28.3	64.4	163-170			J	KV	0	62-58-60
PLRU	1	30.6 25.0	299.0	528.0	32.2	69.5	146-149			J	KV	0	60-58-52
PNBX	1	60.1 35.0	303.0	521.0	32.3	69.4	143-149			J	KV	0	40-44-46
PNWR	1	30.6 25.0	336.0	506.0	28.3	55.6	170-176			J	KV	0	68-58-70

NOTE / Remarks / Notes: EN10204-2005/3.1

PHSN	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10153+10154+10155.MET.LOMBARDA*573643MEGA*
PKBD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.11192.MEGA/I*574791MEGA
PLDF	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10170.METALMECCANICA LOMBARDA*566925MEGA*
PLRU	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10766.MEGA/I*569153MEGA
PNBX	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10576.MEGA/I*566724MEGA
PNWR	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10093.METAL.LOMBARDA*

PROVA Test / Epreuve	POS. Item / Pos.	QUANTITA' Quantity / Quantité	CODICE CLIENTE Customer code / Code client	DESCRIZIONI / Description / Description:	VISUAL AND DIMENSIONAL
PHSN	034	2700 *		UNION S. 3000 NPT A/SA105N 3/4	nut OK
PKBD	012	368 *		45 DEG. ELBOW S. 3000 NPT A/SA105N 3/8	OK
PLDF	071	4000 *		BUSHING M/F NPT A/SA105N 1x3/4	OK
PLRU	103	89 *		TEE S. 3000 SW A/SA105N 1.1/4	OK
PNBX	040	30		UNION S. 3000 NPT A/SA105N 4	female OK
PNWR	105	289 *		UNION S. 3000 SW A/SA105N 1/4	nut OK

NOTE / Remarks / Notes: MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-1-2-3 Ed.2009

FINE UFFICIALE DI COLLAUDO Inspection Authority / Service Inspection Officer

CAPO COLLAUDO Chief Inspector / Responsible Assurance Quality

DOC. CERT. M.E.G.A. Emanuele Centemeri