

# M.E.G.A.

CLIENTE  
Customer  
Client

PROVEEDORA DE MATERIALES ANGER  
SA DE CV  
ALFONSO REYES 4030 NTE.  
COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. 549086 FOLGIO 9  
Certificat N. Sheet  
Certificat N. Feuille

DATA / Date 14/04/08

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE 210  
Purchase order  
Commande

COMMESSA 82149  
Job N.  
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
FRAA	ASTM A105/02	1186/03.3	0.200	0.250	0.930	0.010	0.007	00.12	00.08	0.022	0.000	0.110	0.001	0.000	0.396
			--->	Nb%= 0.001	B %=0.0003										CEs= 0.355
NUXF	ASTM A105/05	17165	0.193	0.260	0.980	0.002	0.010	00.09	00.16	0.020	0.004	0.150	0.003	0.023	0.399
			--->	Nb%= 0.002											CEs= 0.356
LULB	ASTM A105/05	04/72191	0.200	0.210	0.890	0.026	0.018	00.11	00.06	0.010	0.010	0.190	0.002	0.007	0.389
			--->	Nb%= 0.000	B %= 0.000										CEs=0.3483
FXAS	ASTM A105/05	71023	0.190	0.230	0.900	0.005	0.009	00.07	00.05	0.010	0.015	0.180	0.017	0.022	0.374
			--->	Nb%= 0.000	B %= 0.000			Sn%= 0.008							CEs= 0.340
NWNS	ASTM A105/05	06/70497	0.190	0.190	0.890	0.009	0.014	00.10	00.05	0.010	0.000	0.130	0.000	0.020	0.372
			--->	Nb%= 0.000	N %= 0.000										CEs= 0.338
NDAL	ASTM A105/03	0340113	0.180	0.200	0.830	0.007	0.008	00.15	00.02	0.009	0.000	0.057	0.002	0.000	0.357
			--->	Nb%= 0.003											

PROVA Test Epreuve	PROVETTA Test specimen / Eproouvette		SNERVAMENTO N/mm <sup>2</sup> ≥ Yield point Limite d'élasticité	ROTTURA N/mm <sup>2</sup> ≥ Tensile strength Rupture	ALLUNGAMENTO % ≥ Elongation Allongement	CONTRAZIONE % ≥ Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattiss.	RESILIENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test tmp	VALORE / Value / Données
FRAA	1	30.6 25.0	304.0	517.0	30.2	69.3	143-160			J	KV	0	50-52-46
NUXF	1	30.6 25.0	372.0	492.0	30.0	64.0	150-160			J	KV	0	54-52-48
LULB	1	30.6 25.0	313.0	538.0	29.2	67.3	156-163			J	KV	0	46-56-50
FXAS	1	30.1 25.0	328.0	502.0	29.6	65.2	148-156			J	KV	-5	30-40-32
NWNS	1	30.6 25.0	334.0	542.0	28.1	64.1	162-170			J	KV	0	48-52-58
NDAL	1	30.6 25.0	338.0	492.0	30.4	58.0	142-148			J	KV	0	46-60-60

PROVA Test Epreuve	NOTE / Remarks / Notes	EN10204/3.1	FORMA Shape / Forme	: 1 = <input type="checkbox"/> 2 = <input type="checkbox"/>
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FRAA	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/MALE:ML098-03*FEMALE:ML099-03
NUXF	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10162.06 METL.LOMBARDA*
LULB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10029.06 M.L.*530314 MEGA*
FXAS	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	/CERT.03.05 EVASI*247572 MEGA*
NWNS	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	/CERT.134.06 EVASI*537210 MEGA*
NDAL	ELECT.FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR.	/CERT.40095.06 FEAT*531810 MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
FRAA	112	1000		UNION S. 3000 SW A/SA105N 3/4	male OK
NUXF	112	1000		UNION S. 3000 SW A/SA105N 3/4	female OK
LULB	113	900		UNION S. 3000 SW A/SA105N 1	male+female+n OK
FXAS	114	150		UNION S. 3000 SW A/SA105N 1.1/4	male+female+n OK
NWNS	114	1050		UNION S. 3000 SW A/SA105N 1.1/4	male+female+n OK
NDAL	115	300		UNION S. 3000 SW A/SA105N 1.1/2	nut OK

NOTE / Remarks / Notes	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official	CAPO COLLAUDO Chief Inspector DPT Responsable assurance qualité
MATERIAL ACCORDING TO NACE MR0175/ 2003.		DOC. CERT. M.E.G.A. L. Marcati