

# M.E.G.A.

CLIENTE  
Customer  
Client

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

CERTIFICATO N. 553465 FOGLIO 1  
Certificate N. Sheet  
Certificat N. Feuille

DATA / Date 07/10/08

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE 223  
Purchase order  
Commande

COMMESSA 85402  
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 %
RWRD	ASTM A105/05	176668	0.173	0.255	1.050	0.002	0.013	0.011	0.015	0.030	0.000	0.216	0.000	0.036	0.401
			--->	Nb% = 0.000	N % = 0.000									CEs = 0.348	
KALF	ASTM A105/05	07/71089	0.185	0.190	0.890	0.007	0.009	0.008	0.004	0.010	0.021	0.150	0.020	0.024	0.367
			--->	Nb% = 0.001										CEs = 0.333	
FFSS	ASTM A105/02	17438	0.183	0.230	0.810	0.003	0.013	0.027	0.014	0.050	0.000	0.390	0.002	0.022	0.417
			--->	Nb% = 0.002										CEs = 0.318	
NXBR	ASTM A105/05	06/72453	0.200	0.180	0.900	0.010	0.010	0.008	0.004	0.010	0.017	0.130	0.019	0.023	0.383
			--->	Nb% = 0.000	N % = 0.000									CEs = 0.350	
RDRD	ASTM A105/05	0744577/07	0.190	0.235	1.080	0.006	0.014	0.012	0.001	0.005	0.000	0.035	0.003	0.026	0.398
			--->	Nb% = 0.0024										CEs = 0.370	
RWSL	ASTM A105/05	07/79692	0.185	0.210	0.890	0.010	0.011	0.010	0.005	0.010	0.000	0.180	0.016	0.022	0.373
			--->	Nb% = 0.000	Sn% = 0.014									CEs = 0.333	

PROVA Test Epreuve	PROVETTA Test specimen / Epreuvevette		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 Pilage	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
RWRD	30.6	25.0	318.0	533.0	29.0	67.0	152-160			J	KV	0	50-48-56
KALF	60.1	35.0	300.0	519.0	32.4	68.3	143-149			J	KV	0	68-60-58
FFSS	57.7	35.0	315.0	541.0	26.0	68.3	156-159			J	KV	-10	152-140-138
NXBR	122.6	50.0	352.0	556.0	26.9	59.8	172-180			J	KV	0	58-54-52
RDRD	122.6	50.0	298.0	504.0	33.4	71.5	137-143			J	KV	0	48-56-50
RWSL	121.7	50.0	333.9	503.6	29.4	65.8	140-143			J	KV	0	82-78-80

PROVA Test Epreuve

NOTE / Remarks / Notes

EN10204/3.1

FORMA Shape / Forme : 1 =  2 =

RWRD ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.151.EVASI\*546051MEGA\*

KALF ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9813.MEGA/I\*548939 MEGA\*

FFSS ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.316.04 ISMA\*247500 MEGA\*

NXBR ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9150.MEGA/I\*538927 MEGA\*

RDRD ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9801.MEGA/I\*548939 MEGA\*

RWSL ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.2202.CARLOTTO\*546903MEGA\*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RWRD	009	1000	51005	45 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK
KALF	019	1500	52010	TEE S. 3000 NPT A/SA105N 1	OK
FFSS	020	216	52012	TEE S. 3000 NPT A/SA105N 1.1/4	OK
NXBR	020	84	52012	TEE S. 3000 NPT A/SA105N 1.1/4	OK
RDRD	021	500	52015	TEE S. 3000 NPT A/SA105N 1.1/2	OK
RWSL	022	700	52020	TEE S. 3000 NPT A/SA105N 2	OK

NOTE / Remarks / Notes

MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO  
Inspection Authority  
Service Inspection Official

CAPO COLLAUDO  
Chief Inspection DPT  
Responsable Assurance qualité

DOC. CERT. M.E.G.A.  
Sergio Appiani