

SUPPLIER: TECNO CORPORATIVO INDUSTRIAL, S.A. DE C.V.
CUSTOMER: PLESA ANAHUAC Y CIAS., S.A. DE C.V. P.O. 12855
ITEM.No. 3 1 1/2" X 45 DEG. ELBOW SW 3,000# , HEAT: MF16 QTY: 29
07 MAYO /2012 ACCORDING ISO 15156-03



RACCORDERIA FORGIATA E DERIVAZIONI
 FORGED STEEL FITTINGS AND OUTLETS

CERTIFICATO DI COLLAUDO / TEST CERTIFICATE



Cliente/Customer TECNO CORPORATIVO INDUSTRIAL S.A. DE C.V. Certific. N. CTCERT200900000002
 Ordine cliente/Customer order n. IPO-TCI-211 DTD 05/11/08 Data/Date 08/01/2009
 Documento di trasporto DTVEND2009000000008 INVOICE NUMBER 8
 Lista/Job 2858

Item	Quantity	Heat code	Heat Number	Description	Type and mat. specific./year date	Steel Mill	Certificate number
8	100	M10	08/71878	45DEG ELBOWS 3/4 3000 SW	ASTM A105N-05	RIVA ACCIAIO SPA	6501/08
ANALISI CHIMICA DI ACCIAIERIA C% Mn% P% S% Si% Cr% Ni% Mo% Ti% Cu% Nb% Co% V% N% CE% TRATTAMENTO TERMICO / HEAT TREATMENT							
STEEL MILL CHEMICAL ANALYSIS 0.190 0.890 0.009 0.009 0.240 0.080 0.050 0.010 0.019 0.130 0.000 0.000 0.015 0.000 0.370 NORMALIZED AT 920°C / COOLED STILL AIR							
CARATTERISTICHE MECCANICHE Snervamento Rottura All. Con% Durezza Resilienza Prova idraulica Pieg. Visual and dimensional check Yield str. Ten.Str. Elp. Red.of. Hardness Impact test val.J.cmt2) H.Test B.Test **OK**							
MECHANICAL PROPERTIES N/mm(2) 316 N/mm(2) 508 32.90 57.40 HB 142 49.2 46.8 45.3 -46°C 0							
9	150	M11	08/76303	45DEG ELBOWS 1 3000 SW	ASTM A105N-05	RIVA ACCIAIO SPA	39838/08
ANALISI CHIMICA DI ACCIAIERIA C% Mn% P% S% Si% Cr% Ni% Mo% Ti% Cu% Nb% Co% V% N% CE% TRATTAMENTO TERMICO / HEAT TREATMENT							
STEEL MILL CHEMICAL ANALYSIS 0.195 0.890 0.012 0.010 0.220 0.130 0.070 0.010 0.015 0.160 0.001 0.000 0.016 0.000 0.390 NORMALIZED AT 920°C / COOLED STILL AIR							
CARATTERISTICHE MECCANICHE Snervamento Rottura All. Con% Durezza Resilienza Prova idraulica Pieg. Visual and dimensional check Yield str. Ten.Str. Elp. Red.of. Hardness Impact test val.J.cmt2) H.Test B.Test **OK**							
MECHANICAL PROPERTIES N/mm(2) 317 N/mm(2) 511 32.70 57.00 HB<187 49 44 47 -46°C 0							
10	50	MF16	08/72771	45DEG ELBOWS 1.1/2 3000 SW	ASTM A105N-05	RIVA ACCIAIO SPA	13408/08
ANALISI CHIMICA DI ACCIAIERIA C% Mn% P% S% Si% Cr% Ni% Mo% Ti% Cu% Nb% Co% V% N% CE% TRATTAMENTO TERMICO / HEAT TREATMENT							
STEEL MILL CHEMICAL ANALYSIS 0.180 0.890 0.009 0.005 0.230 0.080 0.050 0.010 0.018 0.130 0.000 0.000 0.015 0.000 0.360 NORMALIZED AT 920°C / COOLED STILL AIR							
CARATTERISTICHE MECCANICHE Snervamento Rottura All. Con% Durezza Resilienza Prova idraulica Pieg. Visual and dimensional check Yield str. Ten.Str. Elp. Red.of. Hardness Impact test val.J.cmt2) H.Test B.Test **OK**							
MECHANICAL PROPERTIES N/mm(2) 310 N/mm(2) 500 33.40 58.20 HB 141 46.6 49.7 50.7 -46°C 0							
11	50	FC-DO	07/76599	45DEG ELBOWS 2 3000 SW	ASTM A105N-05	RIVA ACCIAIO SPA	13408/08
ANALISI CHIMICA DI ACCIAIERIA C% Mn% P% S% Si% Cr% Ni% Mo% Ti% Cu% Nb% Co% V% N% CE% TRATTAMENTO TERMICO / HEAT TREATMENT							
STEEL MILL CHEMICAL ANALYSIS 0.200 0.880 0.010 0.009 0.210 0.090 0.050 0.010 0.020 0.170 0.001 0.000 0.017 0.000 0.390 NORMALIZED AT 920°C / COOLED STILL AIR							
CARATTERISTICHE MECCANICHE Snervamento Rottura All. Con% Durezza Resilienza Prova idraulica Pieg. Visual and dimensional check Yield str. Ten.Str. Elp. Red.of. Hardness Impact test val.J.cmt2) H.Test B.Test **OK**							
MECHANICAL PROPERTIES N/mm(2) 319 N/mm(2) 514 32.50 56.80 HB 146 49.4 45.3 46.6 -46°C 0							



I risultati delle analisi chimiche sono la corretta trascrizione del certificato di colata emesso dall'acciaieria o dal laboratorio che li ha rilevati.
 The results of chemical analysis are a true and correct copy of the mill certificate issued by the steel mill, or by the laboratory which has determined them.

RACCORDI SECONDO / FITTINGS IN ACC.TO ASME B16.11-01, ASME B1.20.1-83, ASME B31.1-04, BS 3799-74, MSS SP-25, MSS SP-83, MSS SP-95, MSS SP-97, ASTM A153/A153M-03, ASTM B633-01, MSS SP 79, NACE MR0175.MR0103

Certificato secondo / Certificate acc. to: EN 10204/3.1 - DIN 50049/3.1

ENTE COLLAUDO / INSPECTOR



Organizzazione con Sistema di Gestione certificato
 Company with Management System certified
 ISO 9001:2000



C. QUALITA'/QUALITY CONTROL

Handwritten signature