



MUSSARI S.r.l.

Traffleria tubi inox di alta precisione
Via Repubblica 11/B - Tel 031/390677 - 031/492476
Fax 031/390010

22075 LURATE CACCIVIO/COMO (ITALY)
web-site: www.mussari.com

EN 10204 / 3.1

ABNAHMEPRUFZEUGNIS
CERTIFICAT D'ESSAIS

CERTIFICATO DI COLLAUDO

Comm. Nr. 3475/14 - 639/15**

DELIVERY BILL - Lieferschein/Bullein de Livraison/Bolla di consegna
574

N. 817 - 2015

DATE - Datum/Data

10 marzo 2015

CUSTOMER - Besteller/Client/Cliente :
CUSTOMER ORDER N° - Bestellung/Commande Client/Ordine Cliente :
2015038
MECHANICAL TEST
SPECIFICATIONS Antiorologgen/Specifications/Normative:
ASTM A 213/269 - MSR-HP TUBES

STEEEL GRADE
DIMENSIONS
QUANTITY
Menge/Quantita/Quantità
YIELD POINT
TENSILE STRENGTH
ELONGATION
HARDNESS
TECHNOLOGICAL TEST

Werkstoff/Nuance Materiale	Dimensions/Dimensioni	HEAT N° Schmelze Coulée/Catala	%C MAX 0.035	%Mn MAX 02:00	%Si MAX 0.75	%P MAX 0.045	%S MAX 00:03	%Ni MIN 10.00 MAX 14.00	%Cr MIN 16.00 MAX 18.00	%Mo MIN 2.00 MAX 3.00	%Ti	YIELD POINT Streck-/Dehnstange Limite d'élasticité	TENSILE STRENGTH Zugfestigkeit Résistance à traction Limite di rottura	ELONGATION Bruchdehnung Allungamento % L02"	HARDNESS Härte Durezza HRB	TECHNOLOGICAL TEST Technologische Prüfung Esami "Technologici" Prove tecnologiche						
																	PC. p.z.	LGTH mm	RP0.2% req.	N/mm² result	N/mm² req.	result
TP 316 - 316L	1/4" x 0.083" 6.35 x 2.10	A00876											≥ 689 799.0 785.0	≥ 758 930.0 922.0	≥ 18% 18.0 18.0	96.0 97.0	FLARING TEST: Erweiterungsprobe/Estensione/Allungamento =	FLANGE TEST: Kemperprobe/Borçoje/Boratura =	FLATTENING TEST: Abflachungsprobe/Abflachassament =	BENDING REV. TEST: Faltversuch/Filanger/Requarto =	RING FLATTENING TEST: Ring Faltversuch/Esami: anneau/Prova di Schiacciamento =	DRIFT EXPANDING TEST: Ausweitversuch/Manif. in an. Mandrinatura Anello =

STEEL GRADE: TP 316 - 316L
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HEAT N°: Schmelze / Coulée/Catala: A00876
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TENSILE STRENGTH: 930.0 N/mm² (Zugfestigkeit)
ELONGATION: 18.0% (Bruchdehnung)
HARDNESS: 96.0 HRB (Härte)
TECHNOLOGICAL TEST: (Technologische Prüfung)

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INSPECTION DEPARTMENT SIGNATURE
Viktor Deh Wersand/Verwandlungen
Via de l'Inspection
Via controll/Controllo
Mussari S.r.l.

100% hydrostatic pressure tested at **During 5 sec :**
Wasserdruckversuch/Essai Hydraulique/Prova Idraulica
100% eddy current test acc. to A1016-NFA 49872-SEP 1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10246-2 : GOOD
Eddy current/Courant de Foucault/Eddy Current
Visual and Dimensional control :
Beschäftigung und Ausmessung/Controlle Visuel et Dimensionnel/Controlle Visivo e Dimensionale
MARKING-Kennzeichnung/Marquage/Marcatura
Straightness control : OK
Geradeheit/Controlle Controlle de rectitude/Controllo rettitudine

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

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trattato tutti di alta precisione
trattato tutti di alta precisione

INSPECTION DEPARTMENT SIGNATURE
Viktor Deh Wersand/Verwandlungen
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F11578 - 1/4" HIGH PRESSURE NIPPLE 3" LONG 60K 316L