

MUSSARI S.r.l.

Traffleria tubi inox di alta precisione
Via Repubblica 11/B - Tel 031/390677 - 031/492476
Fax 031/390010
22075 LURATE CACCIUOLO (ITALY)
web-site: www.mussari.com

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

EN 10204 / 3.1

ABNAHMEPRUFZEUGNIS
CERTIFICAT DESSAIS

CERTIFICATO DI COLLAUDO

Comm. Nr. - Lot. Nr.
1365/16 - 3263/16

DELIVERY BILL - Lieferschein/Bulletin de Livraison/Bolla di consegna

2769

N. 3604 - 2016

DATE - Datum/Data

19 dicembre 2016

CUSTOMER ORDER N° - Bestellung/Commande Client/Ordine Cliente

2016220

MECHANICAL TEST

SPECIFICATIONS Antordergen/Specifications/Normative:
ASTM A 213/269 - SMIS MSR-HP Tubes

STEEL GRADE	DIMENSIONS	QUANTITY	YIELD POINT		TENSILE STRENGTH		ELONGATION		HARDNESS	
			MPa	ksi	MPa	ksi	%	ksi		
TP 316 - 316L	6.35 x 2.10 1/4" x 0.083"	300.00	Req.	Result	Req.	Result	Req.	Result	Req.	Result
			≥ 689	783.0	≥ 758	922.5	≥ 18%	19.0	≥ 95	101.7
				780.3		911.0		20.0		100.0
				785.8		916.4		20.0		100.9
				762.1		904.0		20.0		99.8

TECHNOLOGICAL TEST

FLARING TEST:	Etweitenversuch/Esavemento/Allungamento	=
FLANGE TEST:	Kemperversuch/Bordagar/Bordatura	=
FLATTENING TEST:	Anflachversuch/Abflachsen/Schachemento	=
BENDING REY TEST:	Faltversuch/Piegare/Piegamento	=
RING FLATTENING TEST:	Ring Faltversuch/Escavemento anneau/Prova di Schiacciamento	=
DRIFT EXPANDING TEST:	Aufweiterversuch/Mandrin am/Mandrinatura Anello	=

REMARKS

Remarks/Notes/Note
smit tubes cold drawn HARD pickled
Egou décapés - Tubi senza saldatura trafilati a freddo CRUDI decapati
nanteses rohr kalt gezogen HART gebeizt - Tubes sans soudure tirées à froid

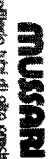
Suitable for 60.000 Psi
HEAT TREATMENT: N.A.
PMI TEST on each tube: GOOD
Intergranular corrosion test acc. To A262/Pract E: =

100% hydrostatic pressure tested at During 5 sec :
Wasserdruckversuch/Essai Hydraulique/Prova idraulica
100% eddy current test acc.to A1076-NFA 49872-SEP 1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10246-2 :GOOD

Visual and Dimensional control :
Beschichtigung und Ausmessung/Controlo Visuale e Dimensionale
MARKING-Kennzeichnung/Marquage/Marcatura

OK

Straightness control
Geradheit Kontrollieren/Controlo de rectitude/Controlo rettilineità



INSPECTION DEPARTMENT SIGNATURE:
Via de l'inspecteur
Via de l'inspecteur
Mussari S.r.l.

MSR - AISI 316-316L - ASTM A213/269 MSR-HP Tubes Heat. Nr. A03020 - Tubes Size 1/4x0.083" O.D.mm I.D. C.D. Tubes Suit. For 60.000 Psi
We certify that the material described has been manufactured acc. With above standards and specifications and satisfies the order's requirements.
Wir bestätigen, dass die gelaufene Ware den Bestellerwünschen entspricht/Vous attestations que les produits livrés sont conformes aux références de la commande/Noi attestiamo che il materiale spedito e' conforme ai requisiti dell'ordine

F12709
1/4" HP Nipple x 70mm Long 60K