



MUSSARI S.r.l.

Traffleria tubi inox di alta precisione  
Via Repubblica 11/B - Tel 031/390677 - 031/492476  
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22075 LURATE CACCIVIO/COMO (ITALY)  
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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 Amforderungen/Specifications/Normative:

ASTM A 213/269 - SMLS MSR-HP Tubes

STEEEL GRADE	DIMENSIONS	QUANTITY	YIELD POINT		TENSILE STRENGTH		ELONGATION		HARDNESS		TECHNOLOGICAL TEST									
			Streck-/Dehngrenze Limite di snervamento	Resistenza a trazione Limite di rottura	Zugfestigkeit Resistenza a trazione	Bruchdehnung Allungamento	Haerfte Durezza	Technologische Pruefung Esamen Technologique Prova tecnologiche												
Werkstoff/Vuance	Admessungen/Dimensioni	Menge/Quantita/Quantita	RP0.2%	N/mm <sup>2</sup>	req.	result	% LOZ	req.	result	req.	result	Flange Test:								
TP 316 - 316L	6.35 x 2.10 1/4" x 0.083"	300,00	783,0	780,3	783,0	780,3	785,8	762,1	922,5	911,0	916,4	904,0	101,7	100,0	100,9	99,8	FLANGE TEST:	Etweiterungsversuch/Esasement/allungamento	=	
																	FLATTENING TEST:	Kemperversuch/Bundage/Bordatura	=	
																		BENDING REY TEST:	Anbiehungsversuch/Abbiegversuch/Schacchamento	=
																		RING FLATTENING TEST:	Faltesversuch/Piange/Piegamento	=
																		DRIFT EXPANDING TEST:	Ring Faltesversuch/Esasement anneau/Prova di Schiacciamento	=
																				=
																				=
																				=

FLOW TECHNOLOGY LTD  
TEST CERTIFICATE  
VERIFIED TRUE  
COPY OF ORIGINAL

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  
Eddy current/Courant de Foucault/Eddy Current

Visual and Dimensional control :  
Beschichtigung und Ausmessung/Controle Visuel et Dimensionnel/Controllo Visivo e Dimensionale  
OK

Straithtness control :  
Geradheit/Kontrolliert/Controle de rectitude/Controllo rettilineità  
=

MSR - AISI 316-316L - ASTM A213/269 MSR-HP Tubes Heat. Nr. A03020 - Tubes Size 1/4x0.083" O.D. .x...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 besatigen, dass die galeitete Ware den Bestellevorschriften entspricht/Vous attestations que les produits livres sont conformes aux references de la commande/Noi attestiamo che il materiale spedito e conforme ai requisiti dell'ordine

REMARKS  
Bemerkungen/Notes/Note  
smooth tubes cold drawn HARD pickled  
Egou decapés - Tubi senza saldatura trifilati a freddo CRUDI decapati  
nanteses rohr kalt gezogen HART gebeitzt - Tubes sans soudure tirées a froid

Suitable for 60.000 Psi

HEAT TREATMENT :  
Warmebehandlung/Traitement Termique/Terriquetamento termico  
N.A.

PMI TEST on each tube:  
Verwechlungsprüfungen PMI/Prova anti mescolanze  
GOOD

Intergranular corrosion test acc. To A262/Pract E  
Korrosionslösende Rückständen/essai testides corrosif/Prova residui corrosivi  
=

INSPECTION DEPARTMENT SIGNATURE:  
Vizier, Das Versuchsverfahren  
Vize del Responsabile  
Vice controllo Qualita  
Mussari  
Mussari S.r.l.