

CD25518 - 18.75 in

C145034



CARRS STAINLESS STEELS

A Division of ELG Haniel Metals Ltd.
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Purchaser - Gestalter - Acheteur ASA Alloys Div of CSM ULC 20 Challenger Crescent Sherwood Park Alberta T8H 2R1 Canada	Inspection Certificate Abnahmeprüfzeugnis: Certificat de réception:	DIN 50049 3 1 EN 10204	Cert No. Zeugnis Nr. Cert No.	145046	Date: Datum: Date:	25/01/16
	Customer Order No. Kundenbestellnummer: No. de Commande Client:	P038683		Product Description - Beschreibung des Erzeugnisses - Description du Produit: 18.75in Dia. x 10000 lbs Electric Melt & Vacuum Degassed Stainless Steel Solution Annealed Forged ASA 1 4404/316L EN 10088-3:5 EN10272:07 ASTM A182-09a, A276-08a, A479-10 F316/F316L 316/316L ASME SA182-LE, SA276-LE, SA479-LE F316/F316L 316/316L NACE MR0175-09/ISO 15156 QQS 763F		
	Our Order No. Unsere Auftr.-Nr. notre Comm. No.	54766 W147768/00		9793 LB 4442 Kgs.		

Chemical Analysis - Chemische Analyse - Analyse Chimique													
Chemical No. Schmelznummer No. de Coulee	C	SI	Mn	P	S	Cr	Mo	Ni	Cu	Co	N		
CD25518	.019	.37	1.34	.034	.009	16.79	2.01	10.09	45	.19	.050		

Heat Treatment - Warmbehandlung - Traitement Thermique	Solution annealed @ 1060 C for 5 hours & Water Quenched
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Mechanical Properties - Mechanische Eigenschaften - Caracteristiques Mechanique													
Test No. Probe Nr. N ^o . d'Essai	Test dimension Probenmessung Dimension	Proof Stress Streckgrenze Limite d'Elasticite	0.2%	10%	Tensile strength Zugfestigkeit Resistance a la traction	Rm	Elong % A Bruchdehnung % Allongement %	Lo 50	40	Red of Area % Bruchminderung % Striction %	2	Impact Kerbschlagzähigkeit Resilience	Hardness Härte Durete
MR2699	18.75"	L	307 MPa	347 MPa	565 MPa		63 %	76 %					121 HB
MR2700	18.75"	Tr	292 MPa	337 MPa	555 MPa		57.5 %	80 %					
MR2700	10X10MM	Tr										198 J 207 J 218 J	RT

Remarks - Bemerkungen - Remarques

Ultrasonically tested to ASTM A388 and found satisfactory
 Inter-crystalline corrosion test to ASTM A262.E satisfactory
 Inter-crystalline corrosion test to BS EN ISO 3651-2 Satisfactory
 No welding performed
 No contact with Mercury or radioactive elements
 Approved to PED 97/23/EC TUV cert issued No 13595-01
 Material in accordance with ASME Sec II Part A. 04/Addenda 06
 Material in accordance with EN10272/EN10222-5
 Hardness Rockwell B = 77
 Macrostructure see attached sheet.

The material detailed has been manufactured and tested in accordance with the Quality Assurance system ISO 9001:2008 and the requirements of the specification/order

Signed:

Chris Ryan - Quality Manager



Approved signatory for
ELG Carrs Stainless Steels