


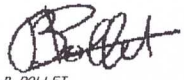



Usine productrice/Hersteller/Manufacturer Ugine Avenue Paul Girod - CS 90100 73403 Ugine Cedex France		CERTIFICAT DE RECEPTION 3.1 ABNAHMEPRUEFZEUGNIS 3.1 INSPECTION CERTIFICATE 3.1 ----- EN 10204 / 3.1			UGITECH Providing special steel solutions			
Numéro certificat/Nummer/Number 81683323 900001		Ordre de fab. / Auftrag / Prod. Order A1624TK51000		N° coulée / Schmelzen Nr / Heat N° 613102		N° lot MM / Chargen / Batch 1624TK5100		
Certification - Werkzeugeignis - Certificate AD 2000-MERKBLATT W0/TRD100 Pressure Equipment Directive 2014/68/EU ISO 9001 ISO/TS 16949		EN 9100 EN 9120		N° lot MM / Chargen / Batch 1624TK5100		Marque d'usine Herstellerzeichen Supplier's Mark		
				N° lot MM / Chargen / Batch 1624TK5100		Poignon de l'expert Prüfstempel Inspector's stamp		
UGIMA 4541 BAR ROLLED DESCALED SOLUTION ANNEALED K13 ROUND 30,000MM LONG. 6,000M + 300,000MM -300,000MM								
Produit UGIMA 4541 BARRE LAMINÉ(E) DÉCALAMINÉ(E) HYPERTREMPÉ(E) K13 ROND(E) 30,000MM LONG. 6,000M + 300,000MM -300,000MM								
Erzeugnisform UGIMA 4541 STAB GEWALZT ENTZUNDER/ÜBERDREHT LÖSUNGSGEGLÜHT K13 RUND 30,000MM LONG. 6,000M + 300,000MM -300,000MM								
Product UGIMA 4541 BAR ROLLED DESCALED SOLUTION ANNEALED K13 ROUND 30,000MM LONG. 6,000M + 300,000MM -300,000MM								
Client - Besteller - Purchaser 12672 BIRCELIK PASLANMAZ CELIK			N° cde client - Kundebestellnummer - Purchase order number ORDER DTD 25.07.2016			Commande - Bestellung - Order 761001 10		
Norme de référence / Besugsnorm / Standard for reference AD 2000 W2 ED 02.2008 1.4541 NACE MR0175/ISO 15156-3:2015. 321 ASTM A276/A276M-16a TYPE 321 AD 2000 W10 ED 11.2007 1.4541 AISI 321 ASME SA479/479M-15 Sec.IIPartA TYPE 321 PED 97/23 EC								
EN 10272 ED08 1.4541 ASTM A182/A182M-16 F321 ASTM A479/A479M-16a TYPE 321 EN 10088-3 ED2014 1.4541 ASME SA182/182M-16 Sec.IIPartA F321 NACE MR0103-Ed 2012 S32100								
Spécification client / Kundenspezifikation / Customer's specification								
Nombre Stueckzahl Pieces Nbr		Profil Profile Shape RO		Dimension Ausmessung Dimension 30,000		Longueur Laenge Length 6,000		Poids Gewicht Weight 210 KG
Mode d'élaboration Erschmelzungsart Melting process EAF + AOD + CC		N° prélèvement Probenummer Test number BP7N		Demandé / Vorschrift / Required Min Max 0,0800 1,0000 2,0000 12,0000 19,0000		46 47 48 49 % C % Si % Mn % Ni % CR % MO % CU % S 9,0000 17,0000		0,0300
Demandé / Vorschrift / Required		50 51 52 53 54 55 70 71 72 73 74 75		% P % N % Ti % CO Min Max 0,0400 0,1000 0,7000		0,0310 0,0160 0,1950 0,1450		Produit / Erzeugnisform/ Product
Demandé / Vorschrift / Required		76 77 78 79 80 81 82 83 84 85 86 87		Min Max		coulée/ Schmelzen / Heat Produit / Erzeugnisform/ Product		
We declare that the mentioned product is in compliance with the requirements of the contract and that, after checks and tests, it meets in all respects the specified requirements and applicable standards and regulations, except reservations or exceptions as listed in this declaration of conformity ; Document validated by electronic signature. Material manufactured in the REACH regulation respect.						Ugine le 29.06.2016 Le Responsable Métallurgie-Qualité Der Qualitätsbeauftragter		
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Numéro certificat/Nummer/Number 81683323 900001	Ordre de fab. / Auftrag / Prod. Order A1624TK51000	N° coulée / Schmelzen Nr / Heat N° 613102	N° lot MM / Chargen / Batch 1624TK5100
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24	90	T° C	Limite d'élasticité Streckgrenze Yield Strength		RM Zugfestigkeit Tensile	Allongement Bruchdehnung Elongation		Striction Einschnürung Red area	Dureté-Haerte-Hardness				
			0,2%	1%	Mpa	A5D	A4D		HB	HV	HRB	HRC	
	Min	20	205	225	515	40	40	50	215				22
	Max	20			700								

N° prélèvement Probenummer Test number 39B	BP7N	1201 L	20	256	296	569	50	52	71	163			< 22
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A l'état de Référence / treatment on test sample / Probstreifenbehandlung	14	25	26A	26B	27	28	89	29	30	88	100	37
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Taux de corroyage Forging ratio Verschmiedungsgrad 55,0		Type Form Type	T° C	Sens Richtung Direction	Min	Valeurs individuelles Einzelwerte Individual values	Moyenne Mittelwerte Average	Expansion latérale Seitliche Breitung Lateral Expansion
	101	31	33	32	95		35	36
A l'état de livraison / Lieferzustand / As delivered	13		20	L	J 100	J 233-188-190	J 203	
ON-LINE SOLUTION ANNEALED TEMPERATURE OVER 1040° C						--	--	

A l'état de Référence / treatment on test sample / Probstreifenbehandlung	14							
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TÜV LETTER OF APPROVAL IN OUR POSSESSION. WE ABSTAIN OF A COUNTERSIGNATURE  
INTERCRYSTALLINE CORROSION RESISTANCE ACCORDING TO ASTM A262 PRACTICE E : CONFORM  
INTERCRYSTALLINE CORROSION RESISTANT ACC.TO ISO 3651-2  
FREE FROM INTERNAL DEFECTS EQUIVALENT TO EN 10308 CLASS 2, GUARANTEED BY THE CONTROL PROCESS  
100% CRACK-CONTROLLED WITH EDDY-CURRENT  
ANTIMIXING TEST PERFORMED TO SPECTROSCOPIC METHOD : CONFORM  
TÜV LETTER OF APPROVAL IN OUR POSSESSION. WE ABSTAIN OF A COUNTERSIGNATURE  
INTERCRYSTALLINE CORROSION RESISTANT ACCORDING TO ASTM A262 PRACTICE E.  
INTERCRYSTALLINE CORROSION RESISTANT ACC.TO ISO 3651-2 PRACTICE A  
FREE FROM INTERNAL DEFECTS ACCORDING TO EN 10308 CLASS 2, GUARANTEED BY THE PROCESS CONTROL  
100 % CRACK-CONTROLLED WITH EDDY-CURRENT.  
ANTIMIXING TEST PERFORMED TO SPECTROSCOPIC METHOD : CONFORM  
COUNTRY OF MELT SOURCE : FRANCE  
MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION AND WELDS OR WELD REPAIRS AT TIME OF SHIPMENT

N° certificat d'origine/Ur-Los Werkzeugezeugnisnummer/Original certificate number 81673223 900001	Poids lot origine/Ur-Los Gewicht/Original batch weight 841 KG
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