




Manufacturer Ugine Avenue Paul Girod - CS 90100 73403 Ugine Cedex France www.ugitech.com	INSPECTION CERTIFICATE 3.1 EN 10204 / 3.1	UGITECH 
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Certificate : All UGITECH products were produced according to the certified quality system (at least ISO 9001) and according to customer requests on purchase orders, as per requirements in standards IATF 16949, EN 9100/EN 9120, ISO 13485, code RCCM and/or ASME section III, FED 2014/68/EU, AD2000 W0. Chemical analysis and mechanical properties tests were performed by ISO/CEI 17025 accredited laboratories.	 EN 10088-5 13 0769	Supplier's mark :  Inspector's stamp : 
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Purchase : 12672 BIRCELIK PASLANMAZ CELIK TICARET	Purchase order reference : 41071/W Teil II.	Order number : 918512 60	Certificate : 84129563 000010
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Product : UGI 4435 BAR ROLLED DESCALED SOLUTION ANNEALED K13 ROUND 60,000MM LONG. 5,000M +1000,000MM -0,0 00MM	10002583
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Melting process : EAF + AOD + CC	Batch : 1935SX4800	Heat n° : 925037	Weight : 2041 kg
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Pieces Nbr : 16	Shape : round	Dimension : 60,000 mm	Forging ratio : 13,5
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Standard : AD 2000 W2 ED 09.2016 1.4435 EN 10272 : 2016-11 1.4435 ASME SA182/182M-17 Sec.IIPartA F316L/F316 ASME SA479/479M-17 Sec.IIPartA TYPE 316L/316 ASTM A276/A276M-17 TYPE 316L/316 AD 2000 W10 ED 05.2016 1.4435 BASLER NORME ED97, BN2 1.4435 EN 10088-5 ED 2009 1.4435	NACE MR0175/ISO 15156-3:2015. 316/316L EN 10088-3 ED2014 1.4435 ASME SA276/276M-17 Sec.IIPartA TYPE 316L/316 ASTM A479/A479M-17 TYPE 316L/316 ASTM A182/A182M-18a F316L/F316 NACE MR0103/ISO 17945:2015. 316/316L UNS 12th Edition S31600/S31603
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Customer's specification : TL 006 / BR 4435 ASTM A484 ASME BPE 2014- 1.4435/1.4436	Specification issue No 5	Specification revision date 02.2015	Acceptation date	Deviation
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CHEMICAL ANALYSIS												Test n° : J8T3
%	C	Si	Mn	Ni	Cr	Mo	Cu	S	P	N	Ti	Al
Min				12,5000	17,0000	2,5000		0,0050				
Max	0,0300	1,0000	2,0000	14,0000	18,0000	3,0000	1,0000	0,0150	0,0400	0,1000		
Heat Product	0,0170	0,4800	1,8420	12,6400	17,2550	2,6290	0,3050	0,0117	0,0254	0,0320	0,0020	0,0020

MECHANICAL CHARACTERISTICS Result as delivered : K 1100 / 30M WATER QUENCHED											
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Tensile test									Hardness			
T°C	Test N°	Marker n° Direction	Yield strength Rp 0,2% MPa	Yield strength Rp 1% MPa	Tensile strength RM MPa	Elongation 5D %	Elongation 4D %	Red. Area Z %	HBW 2,5/187,5	Hv 5	HRb	HRc
		Min	205	235	515	40	30		215			22
		Max			700							
20	J8T3	1201 L	312		641	52	54	82	183			<22

Notch Toughness									
T°C	Test N°	Type	Direction	Min J	Individual values J	Average J	Lateral Expansion mm	Cristallinity level	
20	J8T3	KISOV	L	100	228 216 224	223			

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 (NF L 00-015 C); Document validated by electronic signature. Material manufactured in the REACH regulation respect.	Ugine the 30.07.2019 The quality manager  B. POLLET 040001329843
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