

Manufacturer Ugine Avenue Paul Girod - CS 90100 73403 Ugine Cedex France www.ugitech.com	INSPECTION CERTIFICATE 3.1 EN 10204 / 3.1	UGITECH 
--	--	---

Certificate : All UGITECH products were produced according to the certified quality system (at least ISO 9001) and according to customer request on purchase orders as per requirements in standards IATF 16949, EN 9100, EN9125, ISO 13485, Code ICCM and/or ASME section III, PED 2014/68/EU, AD 2000 W0. Chemical analysis and mechanical properties tests were performed by ISO/CEI 17025 accredited laboratories.	Supplier's mark : 
	Inspector's stamp : IQ

Purchase : 12672 BIRCELİK PASLANMAZ CELİK TICARET	Purchase order reference : AISI 410 // 4006	Order number : 919337 70	Certificate : 84114297 900001
---	---	--------------------------	-------------------------------

Product : UGI 4006A BAR ROLLED DESCALED DOUBLE TEMPERING QT650 K13 ROUND 90,000MM LONG. 4,900M +300,000MM -300,000MM 520792

Melting process : EAF + AOD + CC	Batch : 11915PC9220	Heat n° : 9160 3	Weight : 241 kg
Pieces Nbr : 4	Shape : round	Dimension : 90,000 mm	Forging ratio : 6,1

Standard : EN 10272 : 2016-11 1.4006 QT650 ASTM A182/A182M-18a F6A UNS 12th Edition S41000	NACE MR0175/ISO 15156-3:2015. 410 EN 10088-3 ED2014 1.4006
--	---

Customer's specification : API 6A	Specification issue No	Specification revision date	Acceptation date	Deviation
-----------------------------------	------------------------	-----------------------------	------------------	-----------

CHEMICAL ANALYSIS										Test n° : HXH9
%	C	Si	Mn	Ni	Cr	Mo	Cu	S	P	
Min	0,0800				11,5000					
Max	0,1500	1,0000	1,0000	0,5000	13,5000			0,0250	0,0250	
Heat Product	0,1230	0,3580	0,6110	0,4000	12,1080	0,0290	0,0210	0,0082	0,0173	

MECHANICAL CHARACTERISTICS												
Result as delivered : AIR DRETTICHES 950°C 3 HOURS TP 730°C 2H TP 730°C 4H AIR COOL												
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	450		650	15	18	35	197			
		Max			800				229			22
20	HXH9	1 L	544		714	25	27	70	216			<22

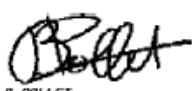
Notch Toughness										
T°C	Test N°	Type	Direction	Min J	Individual values J	Average J	Lateral Expansion mm			Cristallinity level
-30	HXH9	KISOV	L	27	70 60 96	75	0,90 0,80 1,20			
-46	HXH9	KISOV	L	27	50 70 80	67	0,60 0,80 1,00			

ADDITIONAL INFORMATION

Non destructive testing : INTERNAL SOUNDNESS CHECK BY ULTRASONIC INSPECTION PERFORMED AS PER API 6A PSL3 PROCEDURE AND ANTIMIXING TEST PERFORMED BY SPECTROSCOPIC METHOD : CONFORM

Others : COUNTRY OF MELT SOURCE : FRANCE
MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION AND WELDS OR WELD REPAIRS AT TIME OF SHIPMENT

Original certificate number : 84112538 900001	Original batch weight : 947 KG
---	--------------------------------

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 06.06.2019 The quality manager  B. POLLET
--	---