

MILL TEST CERTIFICATE

CUSTOMER	ESTECHNIC TIC.LTD.STI.	PRODUCT	HARD CHROME RODS (CK45)		
STANDARD	EN 10204-3.1	CONTRACT NO.	MO86.38	CERTIFICATE NO.	QC-23W22MO
DELIVERY CONDITION	SURFACE GRINDED, HARD CHROME PLATED	CUST. ORDER NO.	23W22MO	ISSUE DATE	9-Nov-23

NO	LOT NO.	HEAT NO.	MATERIAL	MATERIAL SIZE & QUANTITY						CHEMICAL COMPOSITION % HEAT ANALYSIS)												TENSILE TEST (G.L=L1)			
				I.D	O.D	LENGTH	QUANTITY		MASS (kg)	C	Si	Mn	P	S	Ni	Cr	Cu	Mo	Al	V		Rel Y.S.	Rm T.S.	A EL	Z
							mm			PCS	MTR	×10 ²			×10 ³									MPa	
1	G19090254-1	43564651H	C45		35	4000-3500	560	2100	15872.40	0.44	0.23	0.56	0.02	0.09	0.02	0.04						512	649/653	25.1	47.2
2	G19090321-2	43564651H	C45		40	4000	253	1040	10050.00	0.43	0.25	0.58	0.02	0.01	0.01	0.04						522	640/646	25.1/25.4	49.1
NO	PRODUCTION PROCESS INSPECTION												HARDNESS				NDT								
	STRAIGHTNESS		ROUGHNESS		SURFACE QUALITY		DIMENSION CTRL.		CHROME THICK.		HRC		HB		LEAKAG E		ULTRASO UN								
	< 0.15 / 10000mm		< Ra0.2		none scratch, pin-hole		f7, f8, f9		>15um																
1	Qualified		Qualified		Qualified		f7		Qualified		25				-		-								
2	Qualified		Qualified		Qualified		f7		Qualified		28				-		-								
			WE HEREBY CERTIFY THIS MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTUREED ADN TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIRMENTS OF THE ABOVE MATERIAL SPECIFICATION.																		 TECHNIC				
SURVEYOR TO																									