

MILL TEST CERTIFICATE

THE INSPECTION CERTIFICATE ACCORDING TO EN 10204/3.1 CONFORMING TO THE DEFINITION IN EN 10168



13.09.2022
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ISIK
YEREL CELIK

CERTIFICATE NO: 86.592
ORDER NO: 232278
INVOICE NO: IHS202300000660
NAME OF VESSEL: MY ANTARCTIC OCEAN

FULL NAME AND ADDRESS OF THE MANUFACTURER:
ISIK CELIK SANAYI VE TICARET A.S. HURRIYET MAH. ZONGULDAK CAD. NO:38. KARABUK, TURKEY

NAME AND ADDRESS OF THE EXPORTER:

CUSTOMER:

DESCRIPTION OF GOODS:
PRIME NEWLY PRODUCED HOT ROLLED MERCHANT BARS ACCORDING TO ASTM A36 WITH A6 ROLLING TOLERANCES, IN LENGTHS OF 20 FEET (-0/+2 IN) WITH UNIFORM PIECE COUNT PER BUNDLE

QUALITY:
ASTM A36

PRODUCTION STANDARD:
A6

HEAT NO	LONG CODE	SHORT CODE (SIZE CODE)	SIZE	GAUGE	LENGTH	GRADE	SUBTYPE	PCS. BNOL / PIECES PER BUNDLE	NO. OF BUNDLES PER SIZE	QUANTITY MT (TOTAL THEORETICAL WEIGHT MT)	WORK ORDER	MECHANICAL PROPERTIES FOR EACH HEAT NUMBER			CHEMICAL PROPERTIES FOR EACH HEAT NUMBER																
												YIELD S. (Re)	TENSILE S.(R _m)	R _m / Re	ELONGATION %	CHARPY TEST(1) (KJ/M ²)	RE-BEND TEST (2)	FATIGUE TEST (4)	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Al	N	Fe
1	755660	R005D20	005	1/4	20	A36	ROUND BARS	660	25	25.00	-	L	45106.82	67732.75	1.50	0.191	0.158	0.686	0.022	0.016	0.046	0.037	0.030	0.004	0.003	0.0046	0.0046	98.804	0.319		
2	755663	R007D20	007	3/8	20	A36	ROUND BARS	580	12	23.74	-	L	46412.16	69183.13	1.49	0.190	0.164	0.732	0.022	0.050	0.036	0.036	0.001	0.004	0.005	0.0053	0.0053	98.737	0.326		
3	755663	R007D20	007	3/8	20	A36	ROUND BARS	290	1	0.99	-	L	46122.08	67732.75	1.47	0.199	0.158	0.658	0.026	0.017	0.053	0.036	0.003	0.003	0.001	0.0054	0.0054	98.811	0.323		
4	755667	R009D20	009	1/2	20	A36	ROUND BARS	330	11	23.00	-	L	45541.93	69328.16	1.52	0.197	0.164	0.715	0.023	0.021	0.045	0.035	0.002	0.004	0.004	0.0048	0.0048	98.755	0.330		
5	755667	R009D20	009	1/2	20	A36	ROUND BARS	162	1	0.98	-	L	46267.12	69038.09	1.49	0.182	0.162	0.731	0.016	0.015	0.040	0.030	0.003	0.004	0.003	0.0054	0.0054	98.783	0.316		
6	755692	F425D20	425	1	1/8	20	A36	FLAT BARS	512	12	23.69	-	L	45251.86	66717.48	1.47	0.200	0.166	0.703	0.015	0.030	0.051	0.031	0.040	0.004	0.004	0.0052	0.0052	98.753	0.332	
7	755692	F425D20	425	1	1/8	20	A36	FLAT BARS	256	1	0.99	-	L	45396.89	66717.48	1.47	0.190	0.162	0.649	0.021	0.028	0.060	0.038	0.005	0.006	0.004	0.0059	0.0059	98.801	0.314	
8	755701	F437D20	437	1 1/4	20	A36	FLAT BARS	415	12	24.06	-	L	45541.93	67587.71	1.48	0.199	0.153	0.693	0.029	0.021	0.040	0.031	0.037	0.005	0.005	0.0046	0.0046	98.792	0.328		
9	755701	F437D20	437	1 1/4	20	A36	FLAT BARS	204	1	0.99	-	L	44961.78	65702.21	1.46	0.194	0.169	0.680	0.022	0.024	0.041	0.035	0.037	0.004	0.004	0.0052	0.0052	98.806	0.324		
10	755694	F428D20	428	1	3/16	20	A36	FLAT BARS	342	12	23.75	-	L	45686.97	69473.20	1.52	0.200	0.164	0.656	0.028	0.020	0.041	0.035	0.036	0.004	0.005	0.0056	0.0056	98.841	0.305	
11	755703	F440D20	440	1 1/4	20	A36	FLAT BARS	171	1	0.99	-	L	46122.08	69328.16	1.50	0.189	0.170	0.614	0.028	0.020	0.052	0.037	0.036	0.002	0.005	0.005	0.0051	0.0051	98.815	0.311	
12	755703	F440D20	440	1 1/4	20	A36	FLAT BARS	274	5	9.87	-	L	45251.86	68893.05	1.52	0.189	0.166	0.647	0.026	0.020	0.052	0.037	0.035	0.002	0.005	0.005	0.0056	0.0056	98.845	0.312	
13	755710	F451D20	451	1 1/2	20	A36	FLAT BARS	228	7	13.84	-	L	46267.12	69328.16	1.51	0.189	0.166	0.647	0.026	0.020	0.052	0.037	0.035	0.002	0.005	0.005	0.0056	0.0056	98.845	0.312	
14	755710	F451D20	451	1 1/2	20	A36	FLAT BARS	114	1	0.99	-	L	45832.01	69183.13	1.51	0.192	0.152	0.629	0.018	0.021	0.052	0.040	0.040	0.004	0.004	0.0051	0.0051	98.815	0.311		
15	755722	F469D20	469	2	3/16	20	A36	FLAT BARS	171	12	23.74	-	L	45106.82	67587.71	1.50	0.189	0.154	0.611	0.024	0.018	0.046	0.036	0.035	0.002	0.001	0.0058	0.0058	98.746	0.332	
16	755722	F469D20	469	2	3/16	20	A36	FLAT BARS	86	1	0.99	-	L	46412.16	68023.82	1.47	0.186	0.160	0.712	0.020	0.029	0.044	0.036	0.034	0.002	0.001	0.0059	0.0059	98.764	0.319	
17	755755	F555D20	555	4	3/16	20	A36	FLAT BARS	86	7	13.93	-	L	45396.89	68602.97	1.51	0.195	0.169	0.734	0.029	0.029	0.044	0.036	0.034	0.002	0.001	0.0059	0.0059	98.725	0.330	
18	755755	F555D20	555	4	3/16	20	A36	FLAT BARS	43	1	0.99	-	L	44961.78	67877.78	1.51	0.185	0.153	0.703	0.030	0.020	0.045	0.036	0.036	0.005	0.006	0.0053	0.0053	98.775	0.317	
19	755741	F496D20	496	3	3/16	20	A36	FLAT BARS	115	12	23.95	-	L	45832.01	68167.86	1.49	0.199	0.155	0.663	0.024	0.028	0.058	0.030	0.033	0.003	0.003	0.002	0.0054	0.0054	98.804	0.323
20	755741	F496D20	496	3	3/16	20	A36	FLAT BARS	57	1	0.99	-	L	45106.82	66572.44	1.48	0.190	0.152	0.642	0.023	0.019	0.052	0.034	0.038	0.001	0.002	0.0054	0.0054	98.842	0.312	
21	755697	F424D20	424	1	1/4	20	A36	FLAT BARS	256	13	25.66	-	L	46122.08	67442.67	1.46	0.194	0.167	0.643	0.016	0.020	0.053	0.035	0.034	0.006	0.005	0.0048	0.0048	98.823	0.316	
22	755697	F424D20	424	1	1/4	20	A36	FLAT BARS	128	1	0.99	-	L	46122.08	67442.67	1.46	0.188	0.165	0.663	0.016	0.018	0.059	0.037	0.034	0.006	0.004	0.0053	0.0053	98.804	0.314	
23	755712	F447D20	447	1 1/2	1/4	20	A36	FLAT BARS	171	12	23.74	-	L	46122.08	67877.78	1.47	0.191	0.152	0.624	0.023	0.026	0.053	0.030	0.038	0.002	0.005	0.0049	0.0049	98.851	0.310	
24	755712	F447D20	447	1 1/2	1/4	20	A36	FLAT BARS	86	1	0.99	-	L	45977.05	67297.63	1.46	0.182	0.150	0.664	0.024	0.028	0.042	0.030	0.032	0.003	0.004	0.0058	0.0058	98.840	0.305	
25	755724	F465D20	465	2	1/4	20	A36	FLAT BARS	128	12	23.69	-	L	45832.01	69328.16	1.51	0.188	0.167	0.613	0.024	0.021	0.050	0.032	0.038	0.004	0.001	0.0048	0.0048	98.859	0.304	
26	755724	F465D20	465	2	1/4	20	A36	FLAT BARS	83	1	1.28	-	L	46122.08	69038.09	1.50	0.182	0.161	0.613	0.024	0.021	0.050	0.032	0.038	0.003	0.003	0.0051	0.0051	98.774	0.315	
27	755688	F410D20	410	3/4	3/8	20	A36	FLAT BARS	114	1	0.99	-	L	46267.12	67877.78	1.47	0.182	0.161	0.613	0.024	0.021	0.050	0.032	0.038	0.003	0.003	0.0051	0.0051	98.774	0.315	
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ISIK CELIK SANAYI VE TICARET A.S.
QUALITY CONTROL DEPARTMENT

ALL PRODUCTS HAVE BEEN INSPECTED BY "VITAEUM INSPECTION COMPANY" LOCAL AGENCY

THE RULETS USED IN THE PRODUCTION OF THE ABOVE MATERIALS WAS MELTED AND POURED IN TURKEY FROM THE CARBON IRON AND STEEL INDUSTRY TRADE & CO. INC.

1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT
2. THE CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY
3. MATERIAL FREE FROM MESSIERS AND LADATIONS COMPLIANCE

NOTES:
(1) VALUES ARE FOR FYSIO. TEST TEMPERATURE +5°C
(2) "L" MEANS "LONGITUDINAL", "T" MEANS "TRANSVERSE"
(3) RE-BEND & RE-BEND TESTS ARE ONLY APPLIED TO REINFORCING STEEL BARS
(4) NUMBER OF CYCLES: 1,000,000