

MILL TEST CERTIFICATE

SC 17876

HOT-ROLLED STAINLESS STEEL PLATE

EN 10204 3.1



DKC(DK Corporation)
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Location: 812-1, Go Hyun-Ri, Chung Ha-Myun, Buk-Gu, Pohang, KANG Buk, Korea

End User: ROLARK STAINLESS STEEL
 Customer Name: [Blank]
 Work No.: 80528008
 L/C NUMBER: 67441LU080910008
 Issue Date: 2008-09-18
 Certificate Ref No.: 20080918-6211-1-078
 Purchase Order No.: [Blank]

Specification: ASTM A240/480, ASME SEC II SA240/480, NACE MR-0175
 Grade (Type): 304L/304, 304L/304, 304/304L
 Addenda: S30403/S30400 No.1, S30403/S30400 No.1

Heat Treatment: 1876 F WATER COOLING
 Condition of Plate: GOOD
 Method of Control Test: ASTM A282 Practice E

No.	Bundle No.	Rd quo st - No.	Heat No.	Plate No.	Product SIZE (Inch)			Qty (sh)	Weight (kg)	AGS	Roughness	Formeabl By (μ)	POSITION	DIRECTION	Impact Test (Charpy)			
					T	W	L								V-notch	Temp		
1	0809-0401	✓	SC17876	PB531114-1-01	2.5	86	120	1	3,608				T	C	1st	2nd	3rd	Avg
2	0809-0311		SC17579	PB551127-1-01	3	96	120	1	4,670				B	C				
3	0807-0948		SC17539	PC424637-1-01	2	88	120	1	3,048				B	C				
4	0809-0353		SC17877	PC427238-1-01	1	88	240	1	3,048				T	C				
5	0809-0353		SC17578	PC427311-1-01	0.75	88	240	1	2,291				B	C				
					Total			6	16,761						16,781			

No.	Direction	Chemical composition (%)													Practice				POSITION	DIRECTION	Tensile Test (1N/mm ² -MPa)				Hardness	
		Cont	C	Si	Mn	P	S	Cr	Ni	Mo	N	Co	Cu	Ti	Nb	A	E	B			C	0.2%YS	1.0%YS	T.S		EL
		Max	0.030	0.75	2.00	0.045	0.030	20.00	12.00		0.10												ksi	%		HRB
1	L		0.025	0.43	1.47	0.025	0.001	18.31	8.50	0.07	0.047	0.17	0.48			G				25		70	40			
2	L		0.023	0.39	1.47	0.023	0.003	18.30	8.20	0.05	0.043	0.17	0.43			G				62.8	54.9	87.0	82.0	87.4		
3	L		0.025	0.42	1.47	0.022	0.002	18.37	8.19	0.18	0.050	0.17	0.32			G				45.9	48.6	85.8	60.0	85.4		
4	L		0.021	0.35	1.49	0.027	0.003	18.16	8.18	0.07	0.047	0.17	0.50			G				40.4	48.9	88.7	60.9	82.4		
5	L		0.025	0.43	1.47	0.025	0.001	18.31	8.30	0.07	0.047	0.17	0.48			G				34.4	40.4	82.4	82.3	78.8		
																G				35.0	41.5	89.8	59.7	79.4		

Remarks: Mercury Free, No weld repair statement

Additional Spec: [Blank]

NO WELD REPAIRS
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Y: Top M: Middle B: Bottom
 L: Longitudinal C: Crosswise
 Rectangular: A:30mm B:70mm C:100mm D:5.65-VA
 Round: E:50mm F:70mm G:5.65-VA
 1:10X10mm 2:7.6X10mm 3:5.0X10mm 4:2.5X10mm
 (10.30X10.30mm 20.30X10.30mm 30.30X10.30mm 40.10X10.30mm)

L: Leds Analysis P: Product Analysis
 ASTM E112 A.G.S Test
 1: Slag Structure 2: Dual Structure
 3: Ditch Structure 4: Isolated Ferrite Roots
 5: Interdendritic Ditch 6: End Grain Pitting LI
 G: GOOD N: NOT GOOD

Signature: [Handwritten Signature]

F213-01(A4)

DK Corporation (http://www.dksteel.com)

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1 GWP: P19355