



MILL TEST CERTIFICATE

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201207CF02
Commodity	H-BEAM
Specification	ASTM A36/A572 G50/A992/ CSA350W

	
Certificate No.	IH20120901288 - 8
Class Cert. No.	
Date of Issue	2012-09-11

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾		AVG	1	2	3	
			×100			×1000		×100		×1000			×100	N/mm ²		%		()	°C			
16X7X36 40.00 FT	E 162112	17 11,101	19	22	63	33	18	28 9	2	3	15	13	34	541.3	430.5	26.0	0.80					
16X7X45 40.00 FT	E 161203	28 22,848	16	14	98	24	17	23 8	2	2	12	11	37	548.2	415.8	25.5	0.76					
16X7X45 40.00 FT	E 161238	1 816	18	16	64	28	15	27 10	1	3	15	16	33	529.6	396.2	25.5	0.75					
16X7X45 40.00 FT	E 162016	2 1,632	18	14	65	29	19	29 9	2	3	12	34	527.6	372.7	26.0	0.71						
16X7X45 40.00 FT	E 162081	5 4,080	18	14	65	26	19	31 10	2	3	13	15	34	521.7	404.0	24.5	0.77					
18X6X35 40.00 FT	E 161793	31 19,685	20	16	63	34	13	26 13	3	3	12	15	36	537.4	406.0	24.5	0.76					
18X6X35 40.00 FT	E 161794	65 41,275	20	13	62	29	16	29 13	3	3	13	13	36	536.4	391.3	26.0	0.73					
18X6X35 40.00 FT	E 161795	4 2,540	17	12	69	29	19	29 10	2	2	11	11	34	528.6	380.5	27.0	0.72					
18X6X40 40.00 FT	E 161327	4 2,904	19	13	59	23	19	24 9	1	3	10	13	33	529.6	382.5	26.0	0.72					
SUB TOTAL		157 106,881																				

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/50+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

 General Manager of Q.A Team	WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER
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