



BRIGHT STEEL
SDN. BHD. (18082 U)

A Member of the Ibm Group

INSPECTION CERTIFICATE
(MILL TEST CERTIFICATE)

Customer : MARUBENI - ITOCHU STEEL CANADA INC.
Commodity : COLD FINISHED BARS
Specification : AISI C1018/C1020 ASTM A108/A29 (2007 EDITION)

Certificate No : BSSB/4906/12/01/4790
Contract No : -
P/O No : 104369873
Date Of Issue : 19/01/2012

SIZE	SHP	BUNDLE NO.	HEAT NO.	Mechanical Properties					Chemical Composition (%)					
				G.L (mm)	Yield (N/mm2)	Tensile (N/mm2)	Elong (%)	Hardness (HRB)	C	Si	Mn	P	S	PB
				x 100		x 1000		x 100		x 1000		x 100		
5/16"	RD	1-2	31025870	200	549	701	9.5	98	19	14	68	8	13	
3/8"	RD	3-4	31119000	200	636	715	7.0	98	18	16	69	6	13	
1/2"	RD	5-8	31100360	200	585	618	10.0	98	16	19	70	6	14	
1/2"	RD	7	31110700	200	568	615	9.7	96	15	4	66	10	12	
5/8"	RD	8-10	31100380	200	590	619	13.4	98	17	19	70	6	20	

We hereby certify that the material described herein has been made and tested in accordance with the above specification.

- Note :-
1. To get Kg/mm2 divide by 9.81
 2. To get lbf/in2 multiply by 145
 3. 1 N/mm2 = 1 MPa

[Signature]
Authorized Signature

P.O.#:	<u>P 104369-873</u>
R#:	<u>113004</u>
ITEM#:	<u>501065</u>
HEAT#:	<u>31100380</u>
DATE:	<u>MAR 16, 12</u>

5/8"

20' 6583

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INS March 18, 2020