



BRIGHT STEEL
SDN. BHD. (18082 U)

A Member of the Ibm Group

INSPECTION CERTIFICATE
(MILL TEST CERTIFICATE)

Customer : MARUBENI - ITOCHU STEEL CANADA INC. Certificate No : BSSB/4906/12/01/4790
Commodity : COLD FINISHED BARS Contract No : -
Specification : AISI C1018/C1020 ASTM A108/A29 (2007 EDITION) 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
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.#: P104369-873
R#: 113004
ITEM#: 501065
HEAT#: 31100380
DATE: MAR 16, 12

5/8"

20' 6583

INS March 18, 2020

Lot 177, Jalan Utas, 40000 Shah Alam, Selangor Darul Ehsan, Malaysia.
Tel : 03-55191088 (8 Lines) Fax : 03-55193744 (Sales), 03-55106069/55111735 (General)