



SUPPLIER Dalian Steelforce Hi-Tech Co., Ltd.  
No. 26 Number 2 Street DD Port,  
Dalian Development Zone,  
Liaoning, China.

TEST CERTIFICATE NUMBER 2020-10-19AGRI6520ND5777  
DATE PRINTED 20-11-2020  
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CUSTOMER HJ ASMUS WELLINGTON

CUSTOMER REFERENCE 102868

CUSTOMER ITEM NUMBER

#### PRODUCT DESCRIPTION

PRODUCT: 100NBx4.5mm MED/6.5m Pipe  
FINISH: NOPC  
MATERIAL: Steel Tubes & Tubulars for Ordinary Service  
SPECIFICATION: AS 1074  
GRADE: C250  
STEELMAKING: Basic Oxygen, Continuously Cast, Fine Grained, Fully Killed  
STEEL FEED: Coil from Hot Strip Mill  
MANUFACTURED DATE: 19-10-2020

CHEMICAL COMPOSITION (% of Elements by Mass)												
SGS Test Report Number	Heat Number	SGS Test Laboratory Accreditation Number	Analysis Type	C	P	Mn	Si	S	Ni	Cr	Mo	Cu
DLIN2010002373ML	AGRI6520ND5777	L3437	L	0.090	0.016	0.350	0.010	0.006	0.010	0.010	< 0.010	0.020

CHEMICAL COMPOSITION (% of Elements by Mass)												
SGS Test Report Number	Heat Number	SGS Test Laboratory Accreditation Number	Analysis Type	Al (t) min = 0.02 max = 0.10	B	Ti	Nb	V	CE	CF2	CF3	
DLIN2010002373ML	AGRI6520ND5777	L3437	L	0.035	0.0003	< 0.010	< 0.010	< 0.010	0.148		0.050	

Notes: Chemical Composition

Test Laboratory: SGS-CSTC Standards Technical Services Co., Ltd., Dalian Branch Analysis Type: Ladle and Cast Analysis (L); Product Analysis (P)  
CE = C+Mn/6 CF3 = Si+2.5P

MECHANICAL PROPERTIES												
SGS Test Report Number	Heat Number	SGS Test Laboratory Accreditation Number	Test Type	Test Category	Yield (Mpa)	Tensile (Mpa)	Elongation (%)	Impact Testing (Joules)				
								Test 1	Test 2	Test 3	Average	
DLIN2010002370ML	AGRI6520ND5777	L3437	LSA	B	360	410	33					

Notes: Tensile Test

Test Laboratory: SGS-CSTC Standards Technical Services Co., Ltd., Dalian Branch

Test Type: LSA = Longitudinal strip specimen tested in the artificially aged condition

Gauge Length Method - E = 5.65xSQR(So)

All Tensile properties are determined using samples from production personnel and tested in accordance with AS 1391:2007 and Amendment 1:2012

Test Category - B = Batch; S = Statistical Sampling

Notes: Impact Test

Test Laboratory: SGS-CSTC Standards Technical Services Co., Ltd., Dalian Branch


All Impact properties on gauges  $\geq 6$ mm are determined using samples from production personnel and tested in accordance with AS 1544.2:2003 at 0°

For products complying to AS/NZS1163:2016 with a nominal thickness < 6.0mm L0 properties have been derived as per Clause 9.4.2.3

Dalian Brollo Steel Tubes Co.,Ltd. has the following management system certificates:-

Standard	Certificate Number	Expiry Date	Certification Body
ISO 9001:2015	01018Q10259R2M	03/08/2021	Northeast Audit Co.,Ltd. (NAC)

Dalian Steelforce Hi-Tech Co.,Ltd. confirms that the information included in this Test Certificate agrees with the records of Dalian Steelforce Hi-Tech Co., Ltd. and the product supplied conforms to the requirements of the Standard.

Authorized Signatory:   
Gary Chen

Title: Quality Manager