

TEST CERTIFICATE

This is to certify that the nominated size and quality of the following product has been inspected and tested with following results.


Customer Sold To:

 HESNZ
 3 Heb Place
 Takanini, Auckland, New Zealand

Order:	5041
Invoice:	32016
Date:	10/02/2021
Certificate No:	201020HESNZ

GOODS: GRADE S SHACKLES
 SURFACE: HDG BODY & YELLOW PIN

SIZE:	WLL TON	REQUIRED BS (TON)	ACTUAL AVERAGE	BATCH ID
BOW TYPE	0.5	3	3.6	D113/5/201
	1	6	6.5	D118
	1.5	9	9.5	D116/201
	2	12	13.0	D202
	3.25	19.5	20.0	D201
	4.75	28.5	32.5	D201
	6.5	39	40	D201
	9.5	57	58	D201
	12	72	73	D201
	25	150	155	D201
	35	210	214	D201
BOW SAFETY	6.5	39	40	D201
	25	150	155	D201
	55	330	330	D116
DEE TYPE	1	6	8	D117
	1.5	9	11	D115/7

CHEMICAL COMPOSITION BODY: Chinese #45

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.17-0.37	0.50-0.80	<0.03	<0.03	>0.025
ACTUAL	0.43	0.25	0.65	0.02	0.02	0.025

CHEMICAL COMPOSITION PIN: Chinese #CM690

ELEMENTS	C	Si	Mn	S	P	Al
REQUIRED	<0.45	0.15-0.55	1.3-1.9	<0.03	<0.03	>0.025
ACTUAL	0.29	0.22	1.7	0.003	0.017	0.043

Heat Treatment: Hardened & Tempered.

HARDNESS(required not more than HRC32):

BODY(actual HRC): 29, 28, 30, 28, 29, 28, 29, 30, 28, 29

PIN(actual HRC): 31, 32, 31, 30, 32, 31, 31, 30, 31, 32

We hereby certify the above test is true and correct. All S shackles are tested as per AS2741.