



Certificate No:

QYJ130517HESNZ

This is to certify that the nominated size and quality of the following product has been inspected and tested in accordance with the Chemical/Material Composition below.

MATERIAL CERTIFICATE

Product Description:

BS464 Thimbles, Commercial Shackles,
Turnbuckles, and Wire Rope Grips

Customer Issued To:

HES NZ Ltd
56 Pavillion Drive
Airport Oaks Auckland 2022

Order Number:

592

ITEMS: COMM SHACKLES, T/BUCKLES,U
BOLTS FOR GRIPS, THIMBLES*CHEMICAL COMPOSITION Chinese Q235*

ELEMENTS	C	Si	Mn	S	P		
REQUIRED	0.14-0.20	0.17-0.30	0.30-0.65	<0.05	<0.045		
ACTUAL	0.18	0.25	0.55	0.03	0.025		

*ITEMS: CASTING GRIPS DIN741 BODY**CHEMICAL COMPOSITION Chinese KT32510*

ELEMENTS	C	Si	Mn	S	P		
REQUIRED	2.2-2.8	1-1.8	0.30-0.8	<0.01	<0.1		
ACTUAL	2.5	1.5	0.6	0.08	0.08		

*ITEMS: BODY CASTING FOR GRIPS**CHEMICAL COMPOSITION Chinese #45*

ELEMENTS	C	Si	Mn	S	P	Cr	Ni
REQUIRED	0.42-0.50	0.17-0.37	0.50-.80	<0.035	<0.035	<0.25	<0.25
ACTUAL	0.47	0.25	0.65	0.02	0.02	0.17	0.17

Authorised Signatory



Date:

18/7/2013

Manufactured and inspected for and on behalf of:

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