

## TEST CERTIFICATE

Order No: 10484

Coating: HOT DIP GALVANISED

Certificate No: 20090831006

LOT NO.: 3121140011

### Product Details

Date of Issue: 2009-08-31

Item	Heat No	Description	Hylton Parker Fasteners Part No.	Spec/Grade
001	330904014	AS1252 HDG BOLT: M20X45	20X45MHSA	AS1252-1983 (DIMENSIONAL) / AS1252-1996 (MECHANICAL)
002	9A02691	AS1252 HDG NUT: M20	20MHSN	
003	82-13934	AS1252 HDG WASHER: M20	20MHSW	

#### Chemical Analysis

Item	C%	Si%	Mn%	P%	S%
001	0.38	0.22	0.75	0.016	0.003
002	0.44	0.19	0.66	0.013	0.005
003	0.47	0.25	0.58	0.028	0.012

#### Required Chemical Analysis

Item	C%		Mn%	P%	S%
	Min	Max	Min	Max	Max
001	0.25	0.55	-	0.035	0.035
001	0.15	0.40	0.035	0.035	0.035

#### Mechanical Properties

Item	Yield (MPa)	Tensile (MPa)	Wedge (MPa)	Elong%	Proof Load
001		866	881		147
002	-	-	-	-	285.4
003	-	-	-	-	N/A

#### Required Mechanical Properties

Item	Yield (MPa)	Tensile (MPa)	Wedge (MPa)	Min Elong %
001	660	830	830	12

#### Final Hardness

Item	Scale	Min	Max
001	HRC	29.00	33.00
002	HRC	29.50	33.50
003	HRC	39.00	42.00

#### Required Final Hardness

Item	Scale	Min	Max
001	HRC	23.00	34.00
002	HRC	24.00	36.00
003	HRC	35.00	45.00

Approved:

- Marking: Grade & Trademark
- Decarburization & Head Soundness
- Visual/Dimensional Examination
- Coating Thickness
- Product verified by Independent Batch Testing in Australia (NATA Approved)

Hylton Parker Fasteners certify that the information given is a true and accurate extract from the manufacturers Test Results. The product conforms to:  
 AS1252-1983 (Dimensional)  
 AS1252-1996 (Mechanical)

*Byung Hwan Lee*  
 IL WOO FASTENER CO.  
 PRESIDENT

For & on behalf of **Hylton Parker Fasteners**  
 (A division of Coventry Group (NZ) Limited)