

TEST CERTIFICATE

Order No: 10484

Coating: HOT DIP GALVANISED

Certificate No: 20090831014

LOT NO.: 3121140019

Product Details

Date of Issue: 2009-08-31

Item	Heat No	Description	Hylton Parker Fasteners Part No.	Spec/Grade
001	330904013	AS1252 HDG BOLT: M20X90	20X90MHSA	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	0.39	0.25	0.77	0.015	0.001
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	765	860	839		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)