



# Coventry Fasteners

Australia's Fastener Specialists

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## TEST CERTIFICATE

Order No: 515656

Coating: HOT DIP GALVANISED

Certificate No: 20090801015

LOT NO.: 3113380022

### Product Details

Date of Issue: 2009-08-01

Item	Heat No	Description	Coventry Fasteners Part No.	Spec/Grade
001	D90090701	AS1252 HDG BOLT: M20X220	20X220MHSA	AS1252-1983 (DIMENSIONAL) / AS1252-1996 (MECHANICAL)
002	8C04087	AS1252 HDG NUT: M20	20MHSN	
003	4109010932	AS1252 HDG WASHER: M20	20MHSW	

#### Chemical Analysis

Item	C%	Si%	Mn%	P%	S%
001	0.40	0.27	0.64	0.019	0.018
002	0.44	0.19	0.67	0.014	0.008
003	0.46	0.25	0.60	0.028	0.019

#### 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	785	879	875	14.90	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	27.00	31.00
002	HRC	29.50	33.00
003	HRC	39.00	41.50

#### 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

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

Coventry 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)

Approved:

*Byung Hwan Lee*  
IL WOO FASTENER CO.  
PRESIDENT

For & on behalf of **Coventry Fasteners**  
(A division of Coventry Group Ltd ABN 37 008 670 102)