



# Coventry Fasteners

Australia's Fastener Specialists

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## TEST CERTIFICATE

Order No: 515659

Coating: HOT DIP GALVANISED

Certificate No: 20090801002

LOT NO.: 3113410002

### Product Details

Date of Issue: 2009-08-01

| Item | Heat No    | Description             | Coventry Fasteners Part No. | Spec/Grade   |
|------|------------|-------------------------|-----------------------------|--|
| 001  | 330902797  | AS1252 HDG BOLT: M16X50 | 16X50MHSA                   | AS1252-1983 (DIMENSIONAL) / AS1252-1996 (MECHANICAL) |
| 002  | 330811789  | AS1252 HDG NUT: M16     | 16MHSN                      |  |
| 003  | 4109010932 | AS1252 HDG WASHER: M16  | 16MHSW                      |  |

#### Chemical Analysis

| Item | C%   | Si%  | Mn%  | P%    | S%    |
|------|------|------|------|-------|-------|
| 001  | 0.36 | 0.23 | 0.74 | 0.008 | 0.005 |
| 002  | 0.35 | 0.23 | 0.72 | 0.011 | 0.006 |
| 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  |             | 863           | 860         |        | 94.5       |
| 002  | -           | -             | -           | -      | 182.9      |
| 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 | 32.00 |
| 002  | HRC   | 29.50 | 33.00 |
| 003  | HRC   | 38.50 | 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)