



Coventry Fasteners

Australia's Fastener Specialists

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TEST CERTIFICATE

Order No: 515659

Coating: HOT DIP GALVANISED

Certificate No: 20090801005

LOT NO.: 3113410005

Product Details

Date of Issue: 2009-08-01

| Item | Heat No | Description | Coventry Fasteners Part No. | Spec/Grade |
|------|------------|-------------------------|-----------------------------|--|
| 001 | 330904124 | AS1252 HDG BOLT: M16X75 | 16X75MHSA | 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 | 0.34 | 0.23 | 0.67 | 0.012 | 0.007 |
| 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 | 785 | 880 | 870 | | 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 | 30.00 | 34.00 |
| 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 |

Approved:

- 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)

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)