

TEST CERTIFICATE

Order No: 10484

Coating: HOT DIP GALVANISED

Certificate No: 20090831001

LOT NO.: 3121140003

Product Details

Date of Issue: 2009-08-31

| Item | Heat No | Description | Hylton Parker Fasteners | Part No. | Spec/Grade |
|------|-----------|-------------------------|-------------------------|----------|--|
| 001 | 330905041 | AS1252 HDG BOLT: M16X40 | 16X40MHSA | | AS1252-1983 (DIMENSIONAL) / AS1252-1996 (MECHANICAL) |
| 002 | 9B00450 | AS1252 HDG NUT: M16 | 16MHSN | | |
| 003 | 82-13934 | AS1252 HDG WASHER: M16 | 16MHSW | | |

Chemical Analysis

| Item | C% | Si% | Mn% | P% | S% |
|------|------|------|------|-------|-------|
| 001 | 0.36 | 0.23 | 0.72 | 0.012 | 0.006 |
| 002 | 0.42 | 0.21 | 0.70 | 0.012 | 0.006 |
| 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 | | 840 | 846 | | 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 | 29.00 | 33.00 |
| 003 | HRC | 39.50 | 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)

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)

Approved:


 IL WOO FASTENER CO.
 PRESIDENT

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