SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No. 120203

<table>
<thead>
<tr>
<th>Type</th>
<th>CF10 deep</th>
<th>Nominal designation of rim</th>
<th>19×9.5J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset (mm)</td>
<td>+42</td>
<td>P.C.D. (mm)</td>
<td>130</td>
</tr>
<tr>
<td>Number of bolt holes</td>
<td>5</td>
<td>Structure</td>
<td>1-PC</td>
</tr>
<tr>
<td>Material</td>
<td>A356-T6</td>
<td>Manufacturing method</td>
<td>FLOW FORMING</td>
</tr>
</tbody>
</table>

1. Tire used for test

<table>
<thead>
<tr>
<th>Item</th>
<th>Nominal designation of tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial load endurance test</td>
<td>285/35R19</td>
</tr>
<tr>
<td>Impact test</td>
<td>235/40R19</td>
</tr>
</tbody>
</table>

PCD $\varnothing 15.75\times28.5$

MAX LOADING: 1600LBS

Model#9C83U
Corporate name: Forgestar
Contact: Wong

2. Testing conditions and results

(1) Rotary bending fatigue test
Date of test, (Month 01 (Day) 13 (Year) 2012
Testing equipment approval number A-238
Bending moment during test (kgf.m) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation
---|---|---|---|---|
328 | 100,000 circles | None | OK | Qualified/Disqualified

Used in calculation of bending moment [kN] {kgf} = 725.76 (m) d 0.042(m) W 0.3429 (kgs)
Calculated bending moment value M [kNm] {kgfm} = 327.50 (m) d (m)

(2) Radial load endurance test
Date of test, (Month) 01 (Day) 14 (Year) 2012
Testing equipment approval number B-224
Pre-test air pressure [kpa] {kgf/cm²} | Radial load during test [kN] {kgf} | Rotational speed for test | Damage to disk wheel | Loosening of fixture section etc. | Evaluation
---|---|---|---|---|---|
460 | 1633 | 500,000 circles | None | OK | Qualified/Disqualified

Used in calculation of Radial load[kN] {kgf} Calculated Radial load Q 725.76 (kgf) W 1632.95 (kgs)

(3) Impact test 13º
Date of test, (Month 01 (Day) 13 (Year) 2012
Testing equipment approval number C-297
Pre-test air pressure [kpa] {kgf/cm²} | Total width (mm) | Weight mass (kg) | Drop height (mm) | Impact position (°) | Damage to disk wheel | Air leakage | Evaluation
---|---|---|---|---|---|---|---|
200 | 239 | 616 | 230 | 0°/180° | NONE | OK | Qualified/Disqualified

(4) Overall evaluation Qualified/Disqualified