### SFI TEST REPORT FOR LIGHT ALLOY WHEEL

**Reference No.** 110404

<table>
<thead>
<tr>
<th>Type</th>
<th>CF10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal designation of rim</td>
<td>20×11J</td>
</tr>
<tr>
<td>Offset (mm)</td>
<td>+67.8</td>
</tr>
<tr>
<td>P.C.D. (mm)</td>
<td>130</td>
</tr>
<tr>
<td>Number of bolt holes</td>
<td>5</td>
</tr>
<tr>
<td>Structure</td>
<td>1-PC</td>
</tr>
<tr>
<td>Material</td>
<td>A356-T6</td>
</tr>
<tr>
<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>285/35R20</td>
</tr>
<tr>
<td>Impact test</td>
<td>285/35R20</td>
</tr>
</tbody>
</table>

PCD $15.75^{*}30.93$

MAX LOADING: 1600LBS

2. Testing conditions and results

1. **Rotary bending fatigue test**
   - **Date of test**: (Month 04) (Day 14) (Year 2011)
   - **Testing equipment approval number**: A-238

   - **Bending moment during test (kgf.m)**: 368
   - **Rotational speed for test**: 100,000 circles
   - **Damage to disk wheel**: None
   - **Loosening of tightening section**: OK
   - **Evaluation**: Qualified/Disqualified

   Used in calculation of bending moment [kN][kgf] $r 725.76 (m)$ $d 0.0678 (m)$ $W 0.3556 (kgs)$

   Calculated bending moment value $M [kNm] \{kgf\}m 367.78 (m) d (m)$

2. **Radial load endurance test**
   - **Date of test**: (Month 04) (Day 15) (Year 2011)
   - **Testing equipment approval number**: B-224

   - **Pre-test air pressure [kpa][kgf/cm²]**: 460
   - **Radial load during test [kN][kgf]**: 1633
   - **Rotational speed for test**: 500,000 circles
   - **Damage to disk wheel**: None
   - **Loosening of fixture section etc.**: OK
   - **Evaluation**: Qualified/Disqualified

   Used in calculation of Radial load[kN][kgf] Calculated Radial load $Q725.76 (kgf)$ $W 1632.95 (kgs)$

3. **Impact test 13º**
   - **Date of test**: (Month 04) (Day 14) (Year 2011)
   - **Testing equipment approval number**: C-297

   - **Pre-test air pressure [kpa][kgf/cm²]**: 200
   - **Total width (mm)**: 289
   - **Weight mass (kg)**: 616
   - **Drop height (mm)**: 230
   - **Impact position (°)**: 0°/180°
   - **Damage to disk wheel**: NONE
   - **Air leakage**: OK
   - **Evaluation**: Qualified/Disqualified

4. **Overall evaluation**: Qualified/Disqualified