# SFI TEST REPORT FOR LIGHT ALLOY WHEEL

<table>
<thead>
<tr>
<th>Reference No.</th>
<th>110401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>CF10</td>
</tr>
<tr>
<td>Nominal designation of rim</td>
<td>20×8.5J</td>
</tr>
<tr>
<td>Offset (mm)</td>
<td>+50</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>285/50R20</td>
</tr>
<tr>
<td>Impact test</td>
<td>245/40R20</td>
</tr>
<tr>
<td>PCD</td>
<td>15.75*30.93</td>
</tr>
</tbody>
</table>

MAX LOADING: 1600LBS

## Model#AC83S

Corporate name: Forgestar
Contact: Wong

## Testing conditions and results

1. **Rotary bending fatigue test**
   - Date of test: (Month) 04 (Day) 13 (Year) 2011
   - Testing equipment approval number: A-238
   - Bending moment during test (kgf.m): 389
   - 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 0.050 (m) W 0.4064 (kgs)

   Calculated bending moment value M [kNm] [kgf/m]: \( r \times 388.41 \) d (m)

2. **Radial load endurance test**
   - Date of test: (Month) 04 (Day) 14 (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) \( W \times 1632.95 \) (kgs)

3. **Impact test 13º**
   - Date of test: (Month) 04 (Day) 13 (Year) 2011
   - Testing equipment approval number: C-297
   - Pre-test air pressure [kpa][kgf/cm²]: 200
   - Total width (mm): 249
   - Weight mass (kg): 616
   - Drop height (mm): 230
   - Impact position (º): 0º/180º
   - Damage to disk wheel: NONE
   - Air leakage: OK
   - Evaluation: Qualified/Disqualified

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