## SFI TEST REPORT FOR LIGHT ALLOY WHEEL

**Reference No.** 12092303  
**Type** F14 super deep  
**Nominal designation of rim** 19×11J  
**Offset (mm)** +37.8  
**P.C.D. (mm)** 130  
**Number of bolt holes** 5  
**Structure** 1-PC  
**Material** A356-T6  
**Manufacturing method** FLOW FORMING  

### 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>275/35R19</td>
</tr>
</tbody>
</table>

**PCD** 15.75*24.5  
**MAX LOADING:** 1600LBS

### 2. Testing conditions and results

1. **Rotary bending fatigue test**  
   - **Date of test:** (Month) 09 (Day) 14 (Year) 2012  
   - **Testing equipment approval number:** A-238  
   - **Bending moment during test (kgf.m):** 323  
   - **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}  
   
   
   
   
   
   

2. **Radial load endurance test**  
   - **Date of test:** (Month) 09 (Day) 15 (Year) 2012  
   - **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 Q  

3. **Impact test 13º**  
   - **Date of test:** (Month) 09 (Day) 14 (Year) 2012  
   - **Testing equipment approval number:** C-297  
   - **Pre-test air pressure [kpa] {kgf/cm²}** 200  
   - **Total width (mm)** 279  
   - **Weight mass (kg)** 616  
   - **Drop height (mm)** 230  
   - **Impact position (*):** 0º/180º  
   - **Damage to disk wheel:** NONE  
   - **Air leakage:** OK  
   - **Evaluation:** Qualified/Disqualified

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

**Model#9B42V**  
**Corporate name:** Forgestar  
**Contact:** Wong