

SFI TEST REPORT FOR LIGHT ALLOY WHEEL

| | | | |
|----------------------|---------|----------------------------|--------------|
| Reference No. | 120808 | | |
| Type | CF10 | Nominal designation of rim | 21×10.5J |
| Offset (mm) | +59 | P.C.D. (mm) | 130 |
| Number of bolt holes | 5 | Structure | 1-PC |
| Material | A356-T6 | Manufacturing method | FLOW FORMING |

Model#BC83S

Corporate name: Forgestar

Contact: Wong



1. Tire used for test

| Item | Nominal designation of tire |
|----------------------------|-----------------------------|
| Radial load endurance test | 295/40R21 |
| Impact test | 265/40R21 |

PCD ϕ 15.75*28.5

MAX LOADING:2200LBS

2. Testing conditions and results

(1) Rotary bending fatigue test Date of test, (Month 07 (Day) 23 (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 |
|------------------------------------|---------------------------|----------------------|---------------------------------|--------------------------------|
| 535 | 100,000 circles | None | OK | <u>Qualified</u> /Disqualified |

Used in calculation of bending moment [kN]{kgf} r 997.92 (m) d0.059(m) W0.3937 (kgs)

Calculated bending moment value M [kNm] {kgfm} r 534.23 (m) d (m)

(2) Radial load endurance test Date of test, (Month) 07 (Day) 24 (Year) 2012)

Testing equipment approval number B-224

| Pre-test air pressure [kpa]{kgf/cm ² } | Radial load during test [kN]{kgf} | Rotational speed for test | Damage to disk wheel | Loosening of fixture section etc. | Evaluation |
|---|-----------------------------------|---------------------------|----------------------|-----------------------------------|--------------------------------|
| 460 | 2246 | 500,000circles | None | OK | <u>Qualified</u> /Disqualified |

Used in calculation of Radial load[kN]{kgf} Calculated Radial load 997.92 {kgf} W 2245.31 (kgs)

(3) Impact test 13° Date of test, (Month) 07 (Day) 22 (Year) 2012)

Testing equipment approval number C-297

| Pre-test air pressure [kpa]{kgf/cm ² } | Total width (mm) | Weight mass (kg) | Drop height (mm) | Impact position (°) | Damage to disk wheel | Air leakage | Evaluation |
|---|------------------|------------------|------------------|---------------------|----------------------|-------------|--------------------------------|
| 200 | 269 | 779 | 230 | 0°/180° | NONE | OK | <u>Qualified</u> /Disqualified |

(4) Overall evaluation: Qualified/Disqualified