

## SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No.	141105		
Type	M7S.2	Nominal designation of rim	20×10.5J
Offset (mm)	63	P.C.D. (mm)	130
Number of bolt holes	5	Structure	1-PC
Material	A356-T6	Manufacturing method	FLOW FORMING

### Model#A1741

Corporate name: Forgestar

Contact: Wong



#### 1. Tire used for test

Item	Nominal designation of tire
Radial load endurance test	285/35R20
Impact test	265/35R20

PCD  $\phi$  15.75\*28.5

MAX LOADING: 1600LBS

#### 2. Testing conditions and results

##### (1) Rotary bending fatigue test

Date of test, (Month 10 (Day) 27 (Year) 2014

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
363	100,000 circles	None	OK	<u>Qualified</u> /Disqualified

Used in calculation of bending moment [kN]{kgf}  $r$  725.76 (m)  $d$  0.063(m)  $W$  0.3556 (kgs)

Calculated bending moment value M [kNm] {kgfm}  $r$  362.21(m)  $d$  (m)

##### (2) Radial load endurance test

Date of test, (Month) 10 (Day) 28 (Year) 2014

Testing equipment approval number B-224

Pre-test air pressure [kpa]{kgf/cm <sup>2</sup> }	Radial load during test [kN]{kgf}	Rotational speed for test	Damage to disk wheel	Loosening of fixture section etc.	Evaluation
460	1633	500,000circles	None	OK	<u>Qualified</u> /Disqualified

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

##### (3) Impact test 13°

Date of test, (Month) 10 (Day) 26 (Year) 2014

Testing equipment approval number C-297

Pre-test air pressure [kpa]{kgf/cm <sup>2</sup> }	Total width (mm)	Weight mass (kg)	Drop height (mm)	Impact position (°)	Damage to disk wheel	Air leakage	Evaluation
200	269	616	230	0°/180°	NONE	OK	<u>Qualified</u> /Disqualified

(4) Overall evaluation: Qualified/Disqualified