

## SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No.	100503		
Type	F14 deep	Nominal designation of rim	18×10J
Offset (mm)	+42	P.C.D. (mm)	130
Number of bolt holes	5	Structure	1-PC
Material	A356-T6	Manufacturing method	FLOW FORMING

### Model#8B42U

Corporate name: Forgestar

Contact: Wong



#### 1. Tire used for test

Item	Nominal designation of tire
Radial load endurance test	285/60R18
Impact test	255/40R18

PCD  $\phi$  14.75\*29.7

MAX LOADING: 1520LBS

#### 2. Testing conditions and results

(1) Rotary bending fatigue test                      Date of test, (Month 04 (Day) 22 (Year) 2010 )

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
361	100,000 circles	None	OK	<u>Qualified</u> /Disqualified

Used in calculation of bending moment [kN]{kgf}    r 689.47 (m)    d0.042(m)    W0.4064 (kgs)

Calculated bending moment value M [kNm] {kgfm}    r 360.16 (m) d (m)

(2) Radial load endurance test                      Date of test, (Month) 04 (Day) 23 (Year) 2010 )

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	1552	500,000circles	None	OK	<u>Qualified</u> /Disqualified

Used in calculation of Radial load[kN]{kgf} Calculated Radial load Q 689.47 {kgf} W 1551.31 (kgs)

(3) Impact test 13°                                      Date of test, (Month) 04 (Day) 22 (Year) 2010 )

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	259	594	230	0°/180°	NONE	OK	<u>Qualified</u> /Disqualified

(4) Overall evaluation: Qualified Disqualified