

## SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No.	16020112		
Type	F14 super deep	Nominal designation of rim	18×12J
Offset (mm)	50.5	P.C.D. (mm)	130
Number of bolt holes	5	Structure	1-PC
Material	A356-T6	Manufacturing method	FLOW FORMING

### Model#8B42V

Corporate name: Forgestar

Contact: Wong



#### 1. Tire used for test

Item	Nominal designation of tire
Radial load endurance test	345/35R18
Impact test	315/35R18

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) 09 (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
331	100,000 circles	None	OK	<u>Qualified</u> /Disqualified

Used in calculation of bending moment [kN]{kgf}  $r$  689.47 (m)  $d$  0.0505(m)  $W$  0.3556 (kgs)

Calculated bending moment value M [kNm] {kgfm}  $r$  330.31 (m)  $d$  (m)

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

Date of test, (Month) 04 (Day) 10 (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	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) 08 (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	319	594	230	0°/180°	NONE	OK	<u>Qualified</u> /Disqualified

(4) Overall evaluation Qualified/Disqualified