

SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No.	16020111		
Type	F14 super deep	Nominal designation of rim	18×11J
Offset (mm)	37.75	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	295/45R18
Impact test	275/40R18

PCD ϕ 14.75*29.7

MAX LOADING: 1520LBS

2. Testing conditions and results

(1) Rotary bending fatigue test

Date of test, (Month) 04 (Day) 08 (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
327	100,000 circles	None	OK	<u>Qualified</u> /Disqualified

Used in calculation of bending moment [kN]{kgf} r 689.47 (m) d 0.03775(m) W 0.3683 (kgs)

Calculated bending moment value M [kNm] {kgfm} r 326.05(m) d (m)

(2) Radial load endurance test

Date of test, (Month) 04 (Day) 09 (Year) 2014

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	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) 07 (Year) 2014

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	279	594	230	0°/180°	NONE	OK	<u>Qualified</u> /Disqualified

(4) Overall evaluation: Qualified/Disqualified