

SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No.	090725		
Type	2014 SPOKE	Nominal designation of rim	20×12J
Offset (mm)	+74	P.C.D. (mm)	127
Number of bolt holes	5	Structure	1-PC
Material	A356-T6	Manufacturing method	FLOW FORMING

MODEL#AB42U

Corporate name: Forgestar

Contact: Wong



1. Tire used for test

Item	Nominal designation of tire
Radial load endurance test	315/35R20
Impact test	305/35R20

PCD ϕ 15.75*30.93

MAX LOADING: 1600LBS

2. Testing conditions and results

(1) Rotary bending fatigue test

Date of test, (Month 07 (Day) 23 (Year) 2009

Testing equipment approval number A-226

Bending moment during test (kgf.m)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
386	100,000 circles	None	OK	Qualified/Disqualified

Used in calculation of bending moment [kN]{kgf} r 725.76(m) d0.074(m) W0.3683 (kgs)

Calculated bending moment value M [kNm] {kgfm} r 385.30 (m) d (m)

(2) Radial load endurance test

Date of test, (Month) 07 (Day) 24 (Year) 2009

Testing equipment approval number B-90-②

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	1633	500,000circles	None	OK	Qualified/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) 07 (Day) 23 (Year) 2009

Testing equipment approval number C-127-②

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	309	616	230	0°/180°	NONE	OK	Qualified/Disqualified

(4) Overall evaluation Qualified/Disqualified