

# ALLIANCE ALLOY WHEELS CO.,LTD.

NO. 186, GONG 2ND RD., LONGTAN DISTRICT, TAOYUAN CITY 32559, TAIWAN

TEL: 886-3-4092555

FAX: 886-3-4092655

## Strength Test Statement

oJWL    xJWL-T    oVIA    xSFI    Dept.



Model	HY703	Loading (KG)	705KG
Offset(mm)	43	Nominal Designation of Rim	20x 11.5 J
Number of Bolt holes	5H	P.C.D(mm)	114.3mm
weight(kg)	12.8kg	Structure	1 pcs
Material	A-356.2-T6	Manufacturing method	Flow Forged
1、Tire used for test			
Item	Nominal Designation of Tire		
Radial load Endurance test	345/30R20		
Impact test	305/30R20		



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 2 (Day) 20 (Year) 2024

Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.52	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf)    F (F1): 8.49    r: 0.333 (m)    d: 0.043 (m)

Calculated bending moment value M (KNm) (Kgf·m)    M: 3.52 KNm

b、Radial load endurance test Date of test : (Month) 2 (Day) 23 (Year) 2024

Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load    F (F1): 8.49 (KN) (Kgf)

Calculated Radial load    Q: 19.10 (kN)

c、Impact test    Date of test : (Month) 2 (Day) 20 (Year) 2024

Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



oJWL    xJWL-T    oVIA    xSFI    Dept.

Model	HY703	Loading (KG)	705KG
Offset(mm)	56	Nominal Designation of Rim	20× 11.5 J
Number of Bolt holes	5H	P.C.D(mm)	114.3mm
weight(kg)	12.3kg	Structure	1 pcs
Material	A-356.2-T6	Manufacturing method	Flow Forged
1、Tire used for test			
Item	Nominal Designation of Tire		
Radial load Endurance test	345/30R20		
Impact test	305/30R20		



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 16 (Year) 2025  
 Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.68	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf)    F (F1): 8.49    r: 0.333 (m)    d: 0.056 (m)

Calculated bending moment value M (KNm) (Kgf·m)    M: 3.68 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 18 (Year) 2025  
 Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load    F (F1): 8.49 (KN) (Kgf)

Calculated Radial load    Q: 19.10 (kN)

c、Impact test    Date of test : (Month) 5 (Day) 16 (Year) 2025  
 Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



oJWL	xJWL-T	oVIA	xSFI	Dept.
Model	HY703		Loading (KG)	705KG
Offest(mm)	50	Nominal Designation of Rim		20× 11 J
Number of Bolt holes	5H	P.C.D(mm)		114.3mm
weight(kg)	12.4kg	Structure		1 pcs
Material	A-356.2-T6	Manufacturing method		Flow Forged
1、Tire used for test				
Item	Nominal Designation of Tire			
Radial load Endurance test	325/30R20			
Impact test	275/40R20			



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 26 (Year) 2025  
 Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.65	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.338 (m) d: 0.05 (m)  
 Calculated bending moment value M (KNm) (Kgf·m) M: 3.65 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 28 (Year) 2025  
 Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)  
 Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 5 (Day) 26 (Year) 2025  
 Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk  
 b、Rust-prevention treatment

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## Strength Test Statement



oJWL    xJWL-T    oVIA    xSFI    Dept.

Model	HY703	Loading (KG)	705KG
Offset(mm)	24	Nominal Designation of Rim	20× 11 J
Number of Bolt holes	5H	P.C.D(mm)	114.3mm
weight(kg)	12.8kg	Structure	1 pcs
Material	A-356.2-T6	Manufacturing method	Flow Forged
1、Tire used for test			
Item	Nominal Designation of Tire		
Radial load Endurance test	325/30R20		
Impact test	275/40R20		



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 16 (Year) 2025

Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.32	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf)    F (F1): 8.49    r: 0.338 (m)    d: 0.024 (m)

Calculated bending moment value M (KNm) (Kgf·m)    M: 3.32 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 18 (Year) 2025

Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 5 (Day) 16 (Year) 2025

Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement



Dept.

oJWL	xJWL-T	oVIA	xSFI	Dept.
Model	HY703		Loading (KG)	705KG
Offest(mm)	14	Nominal Designation of Rim		20× 11 J
Number of Bolt holes	5H	P.C.D(mm)		114.3mm
weight(kg)	13.1kg	Structure		1 pcs
Material	A-356.2-T6	Manufacturing method		Flow Forged
1、Tire used for test				
Item	Nominal Designation of Tire			
Radial load Endurance test	325/30R20			
Impact test	275/40R20			



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 2 (Day) 22 (Year) 2024  
 Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.19	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.338 (m) d: 0.014 (m)  
 Calculated bending moment value M (KNm) (Kgf·m) M: 3.19 KNm

b、Radial load endurance test Date of test : (Month) 2 (Day) 24 (Year) 2024  
 Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)  
 Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 2 (Day) 22 (Year) 2024  
 Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk  
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## Strength Test Statement



oJWL	xJWL-T	oVIA	xSFI	Dept.
Model	HY703	Loading (KG)	705KG	
Offset(mm)	35	Nominal Designation of Rim	20x 10 J	
Number of Bolt holes	5H	P.C.D(mm)	114.3mm	
weight(kg)	12.4kg	Structure	1 pcs	
Material	A-356.2-T6	Manufacturing method	Flow Forged	
1、Tire used for test				
Item	Nominal Designation of Tire			
Radial load Endurance test	285/50R20			
Impact test	255/35R20			

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 23 (Year) 2025

Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.68	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.49 r: 0.363 (m) d: 0.035 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.68 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 25 (Year) 2025

Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	19.10	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.49 (KN) (Kgf)

Calculated Radial load Q: 19.10 (kN)

c、Impact test Date of test : (Month) 5 (Day) 23 (Year) 2025

Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	603	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

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## Strength Test Statement



oJWL    xJWL-T    oVIA    xSFI    Dept.

Model	HY703	Loading (KG)	700KG
Offset(mm)	56	Nominal Designation of Rim	19× 11.5 J
Number of Bolt holes	5H	P.C.D(mm)	114.3mm
weight(kg)	11.4kg	Structure	1 pcs
Material	A-356.2-T6	Manufacturing method	Flow Forged
1、Tire used for test			
Item	Nominal Designation of Tire		
Radial load Endurance test	345/35R19		
Impact test	295/35R19		



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 23 (Year) 2025

Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.66	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf)    F (F1): 8.39    r: 0.336 (m)    d: 0.056 (m)

Calculated bending moment value M (KNm) (Kgf·m)    M: 3.66 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 25 (Year) 2025

Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	18.88	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)

Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 5 (Day) 23 (Year) 2025

Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	600	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement

oJWL    xJWL-T    oVIA    xSFI    Dept.

Model	HY703	Loading (KG)	700KG
Offset(mm)	50	Nominal Designation of Rim	19x 11 J
Number of Bolt holes	5H	P.C.D(mm)	114.3mm
weight(kg)	11.5kg	Structure	1 pcs
Material	A-356.2-T6	Manufacturing method	Flow Forged
1、Tire used for test			
Item	Nominal Designation of Tire		
Radial load Endurance test	285/40R19		
Impact test	275/35R19		



### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 24 (Year) 2025  
 Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.53	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf)    F (F1): 8.39    r: 0.329 (m)    d: 0.05 (m)  
 Calculated bending moment value M (KNm) (Kgf·m)    M: 3.53 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 26 (Year) 2025  
 Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	18.88	500000	NONE	NONE	OK

F Used in calculation of radial load    F (F1): 8.39 (KN) (Kgf)  
 Calculated Radial load    Q: 18.88 (kN)

c、Impact test    Date of test : (Month) 5 (Day) 24 (Year) 2025  
 Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	600	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk  
 b、Rust-prevention treatment

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## Strength Test Statement



oJWL	xJWL-T	oVIA	xSFI	Dept.
Model	HY703	Loading (KG)	700KG	
Offest(mm)	24	Nominal Designation of Rim	19x 11 J	
Number of Bolt holes	5H	P.C.D(mm)	114.3mm	
weight(kg)	11.7kg	Structure	1 pcs	
Material	A-356.2-T6	Manufacturing method	Flow Forged	
1、Tire used for test				
Item	Nominal Designation of Tire			
Radial load Endurance test	285/40R19			
Impact test	275/35R19			

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 24 (Year) 2025

Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.20	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.329 (m) d: 0.024 (m)

Calculated bending moment value M (KNm) (Kgf·m) M: 3.20 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 26 (Year) 2025

Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	18.88	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)

Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 5 (Day) 24 (Year) 2025

Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	600	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment

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## Strength Test Statement

oJWL	xJWL-T	oVIA	xSFI	Dept.
Model	HY703	Loading (KG)	700KG	
Offset(mm)	35	Nominal Designation of Rim	19x 10 J	
Number of Bolt holes	5H	P.C.D(mm)	114.3mm	
weight(kg)	12.1kg	Structure	1 pcs	
Material	A-356.2-T6	Manufacturing method	Flow Forged	
1、Tire used for test				
Item	Nominal Designation of Tire			
Radial load Endurance test	285/40R19			
Impact test	255/35R19			

### 2、Testing conditions and results

a、Rotary bending fatigue test Date of test : (Month) 5 (Day) 27 (Year) 2025  
 Testing equipment approval number : VIA A-183

Bending moment during test (KNm)	Rotational speed for test	Damage to disk wheel	Loosening of tightening section	Evaluation
3.34	100000	NONE	NONE	OK

F Used in calculation of bending moment (KN) (Kgf) F (F1): 8.39 r: 0.329 (m) d: 0.035 (m)  
 Calculated bending moment value M (KNm) (Kgf·m) M: 3.34 KNm

b、Radial load endurance test Date of test : (Month) 5 (Day) 29 (Year) 2025  
 Testing equipment approval number : VIA B-168

Pre-test air Pressure (kPa) (kgf/cm <sup>2</sup> )	Radial load during test (kn)	Rotational speed for test	Damage to Disk wheel	Loosening of fixtrue section etc.	Evaluation
460	18.88	500000	NONE	NONE	OK

F Used in calculation of radial load F (F1): 8.39 (KN) (Kgf)  
 Calculated Radial load Q: 18.88 (kN)

c、Impact test Date of test : (Month) 5 (Day) 27 (Year) 2025  
 Testing equipment approval number : VIA C-238

Pre-test air pressure (kPa) (kgf/cm <sup>2</sup> )	Weight mass(kg)	Drop height(mm)	Impact Position(13°)		Damage To disk wheel	Air leakage	Evaluation
200	600	230	0	180	NONE	NONE	OK

3、Overall evaluation : Qualified

4、Remarks : a、Position of load indication mark : reverse、disk

b、Rust-prevention treatment