

MOTOCAP

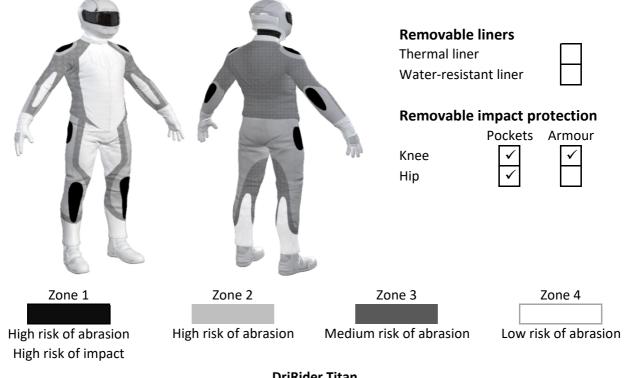
This wotoCAP safety	rating applies to:
Brand	DriRider
Model	Titan
Туре	Pants - Denim
Date purchased	8 February 2021
Sizes tested	34 and 38
Test garment gender	Male
Style	All Purpose
RRP	\$229.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	19.0
Abrasion	1/10	1.09
Burst	10/10	1359
Impact	1/10	0.0
MotoCAP Breathability Rating	****	0.561
Moisture Vapour Resistance	-	20.1
Thermal Resistance	-	0.188
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Adding hip impact protectors would improve the protection levels of this garment. There are no vents to allow airflow movement through the garment.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

These pants were tested for abrasion resistance in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table below. The colour coding is based on the worst performing material in each zone.



Abrasion Resistance Performance

Abrasion rating	1/10
Abrasion score	1.09

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 1 & 2	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4

Individual Abrasion Resistance Results: - The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone. Abrasion times are capped at a maximum of 10.00s.

Abrasion time for each test (seconds)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	80%	1.75	1.65	1.75	1.65	1.58	1.68	1.68 M
Material B	20%	0.90	0.79	0.79	1.08	0.68	0.81	0.84 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.90	0.79	0.79	1.08	0.68	0.81	0.84 M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.90	0.79	0.79	1.08	0.68	0.81	0.84 M

Details of materials used in jacket

Material A	Denim fabric shell, para-aramid layer and mesh inner liner
Material B	Denim fabric shell with mesh inner liner



Burst Strength

These pants were tested for burst strength in accordance with MotoCAP test protocols. The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table below.



Burst Strength Performance					
Burst rating	10/10				
Burst score	1359				

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

Individual Burst Strength Results: - The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

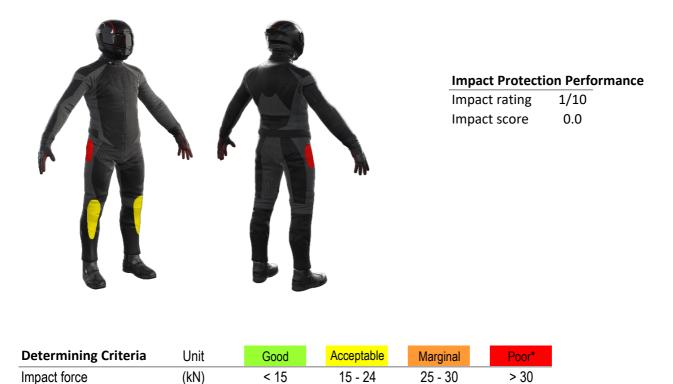
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1189	1489	1281	1354	1293	1953	1426	G
Zones 3 & 4	1350	838	1227	1095	816	1203	1088	G



Impact Protection

These pants were tested for impact protection and coverage in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table below. The colour coding is based on the worst performing score for average or maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Knee	Нір
Average force (kN)	15.1 A	P
Maximum force (kN)	18.6 A	P
Coverage of Zone 1 area	90%	0%
Coverage of Zone after displacement	60%	0%

Individual Impact Protector Results: - The table below shows the test results for each strike on individual impact protectors in kilonewtons (kN) and the position of the strike. Individual strike results are capped at a maximum of 50kN.

Force transfer for each impact strike (kN)

Impact protector type	Knee			Hip	No impact pro	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	11.6	14.8	18.2			
Impact Protector 2	13.0	12.6	18.6			
Impact Protector 3	13.9	14.8	18.6			



Breathability

These pants were tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable	liners	With	n water-resist	ant liner
Breathability rating	****	Brea	N/A	
Breathability score	Brea	N/A		
Moisture Vapour Resi	stance - R _{et} (kPa.m ² /W)	1	2	Average
Without removable line	rs	20.2	20.0	20.1
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average
Without removable line	rs	0.181	0.195	0.188
With water-resistant line	er	N/A	N/A	N/A

Water spray and rain resistance

This pants have not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.	
Brand	DriRider
Model	Titan
Туре	Pants - Denim
Date purchased	8 February 2021
Tested by	AMCAF, Deakin University
Garment test reference	P20D09
Rating first published	April 2021
Rating updated	20 April 2021