


This MotoCAP safety rating applies to:

Brand: Spidi
Model: Tank
Type: Jacket - Leather
Date purchased: 24 July 2018
Sizes tested: L
Gender: M
Style: Cruiser
Test code: J18L09

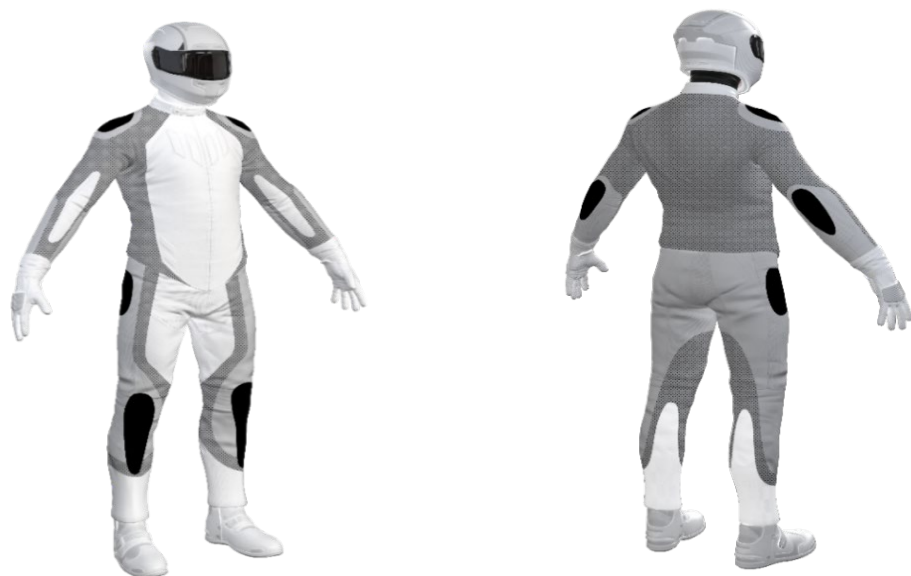
Test Results Summary:

	Rating	Result
MotoCAP Protection Rating	★★	28.0
Abrasion	3/10	2.50
Burst	8/10	884
Impact	3/10	22.2
MotoCAP Comfort Rating	★	0.262
Moisture Vapour Resistance		58.2
Thermal Resistance		0.254
Water Resistance	N/A	

This garment is fitted with impact protectors for the elbows and shoulders, with a pocket provided for the addition of an aftermarket back protector. There are no ventilation ports for air flow control within the jacket to aid cooling in hot weather.

Jacket and Pants - Crash Impact Risk Zones

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


Zone 1


High risk of abrasion
High risk of impact

Zone 2


High risk of abrasion

Zone 3


Medium risk of abrasion

Zone 4


Low risk of abrasion

Abrasion Resistance

The garment was tested for abrasion resistance following the MotoCAP test protocols. 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.

Details of materials used in garment:

Material A:	Single layer of stretch leather outer and mesh inner liner
Material B:	Single layer of leather outer and mesh inner liner
Material C:	Single layer of leather outer and thick 3D mesh inner liner
Material D:	Stretch fabric outer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (s)						Average (s)	
		1	2	3	4	5	6		
Zone 1 and 2 areas (High abrasion risk)									
Material A	100%	1.80	3.10	3.13	2.59	1.89	2.51	2.50	M
Zone 3 area (Medium abrasion risk)									
Material A	100%	1.80	3.10	3.13	2.59	1.89	2.51	2.50	G
Zone 4 area (Low abrasion risk)									
Material A	100%	1.80	3.10	3.13	2.59	1.89	2.51	2.50	G

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 above.



		Good	Acceptable	Marginal	Poor
Determining Criteria					
High abrasion risk	Zone 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

Burst Strength

The garment's burst strength was tested following the MotoCAP test protocols. 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 (kPa)

Area	1	2	3	4	5	Average	
Zones 1 & 2	719	1338	1430	947	1499	1187	G
Zone EZ	463	182	625	432	609	462	P
Zones 3 & 4	1077	1238	942	1062	1291	1122	G

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 above.



Determining Criteria

Burst strength

	Good	Acceptable	Marginal	Poor
(kPa)	> 1000	800 - 1000	500 - 799	< 500

Impact Protection

The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force	23.8	A	28.1	M
Maximum force	30.4	P	30.3	P
Coverage of zone 1 area	110%		90%	
Coverage of zone after displacement	60%		50%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	A	B	C	A	B	C
Impact Protector 1	19.5	21.6	29.6	26.3	28.6	27.5
Impact Protector 2	21.9	23.0	30.4	28.0	27.7	27.7
Impact Protector 3	21.1	23.3	23.7	29.3	27.7	30.3

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



		Good	Acceptable	Marginal	Poor*
Determining Criteria		<div></div>	<div></div>	<div></div>	<div></div>
Burst strength	(kN)	< 15	15 - 24	25 - 30	> 30

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

Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - R_{et} (kPam ² /W)	47.2	69.3	58.2

	1	2	Average
Thermal Resistance - R_{ct} (Km ² /W)	0.242	0.266	0.254

Water spray and rain resistance

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

Assessment Details.

Brand	Spidi
Model	Tank
Type	Jacket - Leather
Date purchased	24 July 2018
Tested by	AMCAF, Deakin University
Garment test reference	J18L09
Rating first published	October 2018
Rating updated	1 October 2021