



This MotoCAP safety rating applies to:

Brand: Dainese Model: Fighter

Type: Jacket - Leather

Date purchased: 20 January 2019

Sizes tested: 54 and 56

Gender: M Style: Sports Test code: J19L07

Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	****	54.6
Abrasion	7/10	5.13
Burst	10/10	1434
Impact	7/10	48.6
MotoCAP Comfort Rating	+	0.144
Moisture Vapour Resistance		126.7
Thermal Resistance		0.304
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at the back for aftermarket impact protectors. There are vents in the sides of the jacket to allow airflow cooling in hot weather. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort of this product may be better when the vents can be opened.

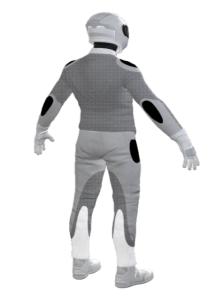
Jacket and Pants - Crash Impact Risk Zones

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



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 in accordance with 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: Leather shell, foam layer and mesh inner liner
Material B: Leather shell, mesh layer and mesh inner liner
Material C: Stretch fabric shell and mesh inner liner

Zone	Coverage	Abrasion t	time for eac	ch test (sec	onds)			Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	20%	6.34	6.20	5.66	6.52	6.64		6.27 G
Material B	80%	5.62	4.89	6.04	4.67	5.07	5.79	5.35 A
Zone 3 area (l	Medium abrasio	n risk)						<u> </u>
Material B	75%	5.62	4.89	6.04	4.67	5.07	5.79	5.35 G
Material C	25%	1.36	1.09	1.06	1.13	1.15		1.16 M
Zone 4 area (l	Low abrasion ris	sk)						<u>—</u>
Material B	90%	5.62	4.89	6.04	4.67	5.07	5.79	5.35 G
Material C	10%	1.36	1.09	1.06	1.13	1.15		1.16 A

Abrasion times are capped at a maximum of 10.00s.

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. The colour coding is based on the worst performing material in each zone.



		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



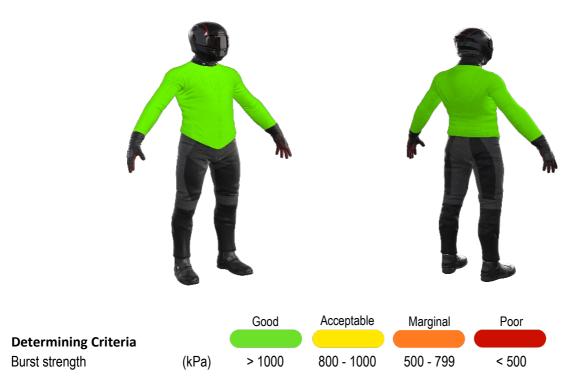
Burst Strength

The garment's burst strength was tested in accordance with 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	1090	1591	1933	960	1915	1498 G
Zone EZ	1581	1105	999	1898	1087	1334 G
Zones 3 & 4	1947	1937	1242	1565	846	1507 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.





Impact Protection

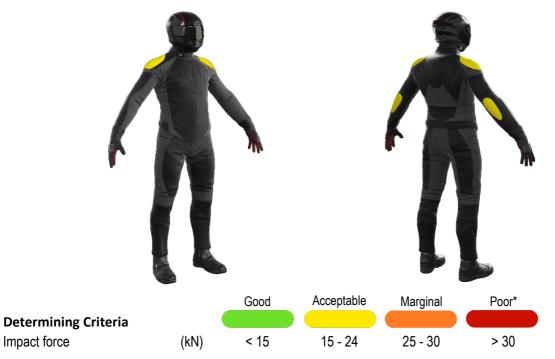
The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	19.9	A	21.2 A
Maximum force (kN)	22.9	A	22.6 A
Coverage of zone 1 area	150%		90%
Coverage of zone after displacement	100%		90%

Individual test results

Impact force (kN)	Elbow	Shoulder				
Strike location	Α	В	С	Α	В	С
Impact Protector 1	18.7	21.8	18.2	19.4	22.6	22.3
Impact Protector 2	16.2	22.9	22.0	19.9	21.8	21.3
Impact Protector 3	22.6	15.2	21.7	19.7	21.9	22.3

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximium force for each impact zone.



^{*} Poor may also indicate that no impact protector, or impact protector pocket is present in the garment Areas shaded black are not considered in the impact protection ratings.



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 - Ret	120.9	132.5	126.7
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.301	0.307	0.304
(Km²/W)			

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.

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Tested by AMCAF, Deakin University

Garment test reference J19L07
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