

MOTOCAP

This MotoCAP safet	y rating applies to:				
Brand:	RST				
Model:	R-18				
Туре:	Pants - Leather				
Date purchased:	7 November 2018				
Sizes tested:	L				
Gender:	Μ				
Style:	Sports				
Test code:	P18L04				

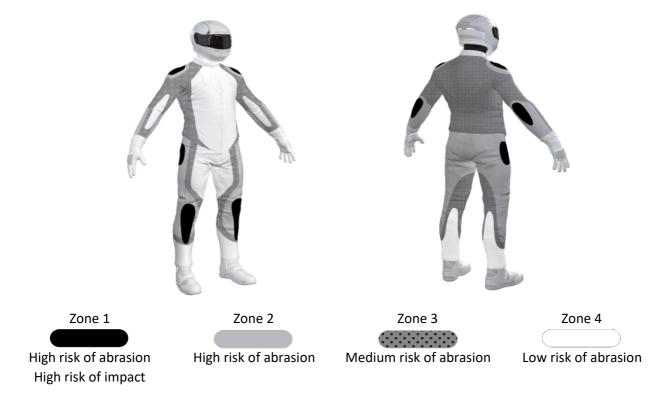
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	**	50.4
Abrasion	10/10	7.24
Burst	10/10	1417
Impact	1/10	0.0
MotoCAP Comfort Rating	*	0.265
Moisture Vapour Resistance		46.6
Thermal Resistance		0.206
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees and with pockets for aftermarket impact protectors for the hips. This garment does not provide vents 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.





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.

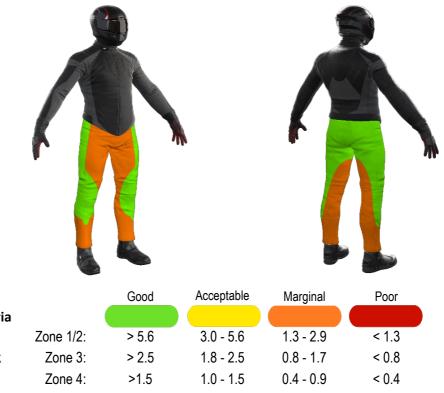
Details of materials used in gar	ment:
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Material A:	Velcro fabric outer, two layers of leather and mesh inner liner
Material B:	Double layer of leather outer and mesh inner liner
Material C:	Polyester stretch fabric outer and mesh inner liner
Material D:	Single layer of leather outer and mesh inner liner

Zone	Coverage	Abrasion f	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	80%	10.00	10.00					10.00 G
Material B	20%	10.00	9.33	7.19	7.22	10.00	9.76	8.92 G
Zone 3 area (I	Medium abrasio	n risk)						
Material C	85%	3.29	4.73	6.29	5.41	4.85	5.97	5.09 G
Material D	15%	0.97	0.75	1.01	0.91	0.72		0.87 M
Zone 4 area (I	Low abrasion ris	sk)						
Material C	20%	3.29	4.73	6.29	5.41	4.85	5.97	5.09 G
Material D	80%	0.97	0.75	1.01	0.91	0.72		0.87 M

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

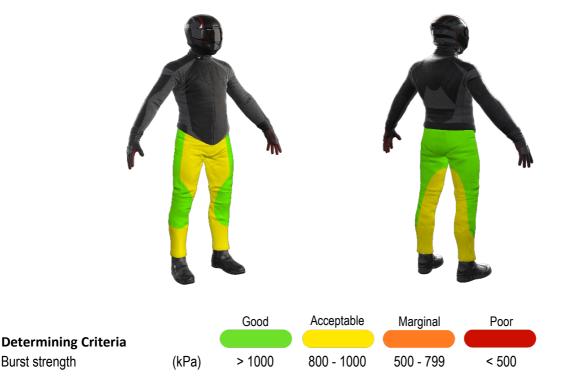


Burst Strength

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	1962	1942	1942	1732	1732	1862 G	;
Zone EZ	1400	1093	1944	755	1184	1275 G	3
Zones 3 & 4	1626	1144	381	560	360	814 A	

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.



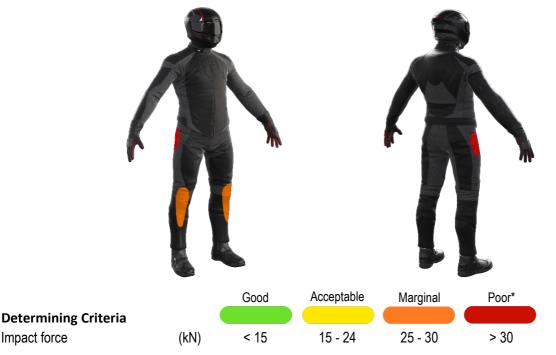


Impact Protection

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 kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type Average force (kN)		Knee 22.1	A		Hip	Ρ
Maximum force (kN) Coverage of zone 1 area		26.5 120%	М		0%	Ρ
Coverage of zone after dis	splacement	100%			0%	
Individual test results						
Impact force (kN)	Knee			Hip	No impact prote	ector present
Strike location	Α	В	С	Α	В	С
Impact Protector 1	19.6	22.5	26.5			
Impact Protector 2	20.2	25.1	25.1			
Impact Protector 3	19.2	19.8	20.7			

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 - R _{et}	47.1	46.2	46.6
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.210	0.203	0.206

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.