

### This MotoCAP safety rating applies to:

Brand:	Bull-it
Model:	SP120 Carbon
Туре:	Jacket - Textile
Date purchased:	29 November 2018
Sizes tested:	L
Gender:	M & F
Style:	All Purpose
Test code:	J18T23

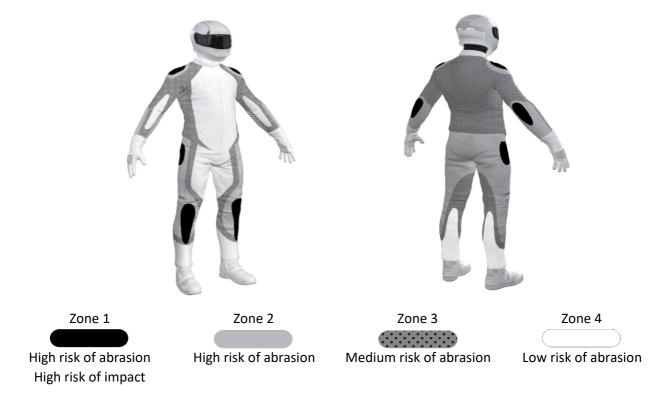
#### **Test Results Summary:**

	Rating	Score
MotoCAP Protection Rating	**	39.4
Abrasion	4/10	3.37
Burst	10/10	1372
Impact	4/10	29.4
MotoCAP Comfort Rating	**	0.397
Moisture Vapour Resistance		26.5
Thermal Resistance		0.175
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided at the back for an aftermarket impact protector. There are no vents to allow airflow 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.

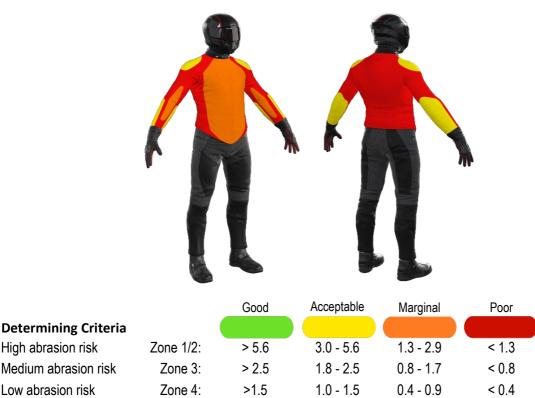
### Details of materials used in garment:

Material A:	Denim shell, knitted Covec™ fabric and mesh inner liner
Material B:	Denim shell with mesh inner liner

Zone	Coverage	Abrasion	time for ea	ch test (sec	onds)			Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	100%	4.73	2.81	3.97	6.90	4.45	0.00	4.57 A
Zone 3 area (	Medium abrasio	n risk)						
Material A	40%	4.73	2.81	3.97	6.90	4.45	0.00	4.57 G
Material B	60%	0.63	0.53	0.44	0.82	0.51	0.42	0.56 P
Zone 4 area (	Low abrasion ris	sk)						
Material B	100%	0.63	0.53	0.44	0.82	0.51	0.42	0.56 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.



High abrasion risk

Low abrasion risk

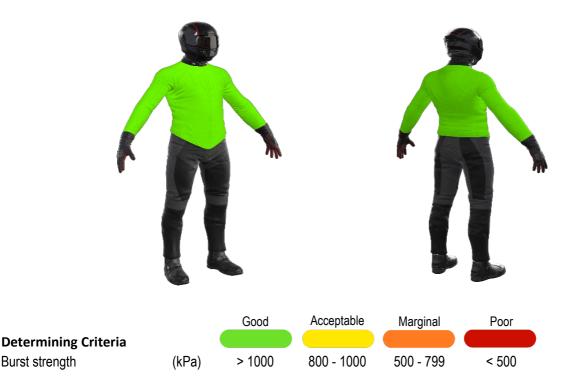


# **Burst Strength**

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	1477	1360	1444	1391	1383	1411 G
Zone EZ	1444	1941	1181	1550	1281	1479 G
Zones 3 & 4	724	1338	1211	959	1169	1080 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.



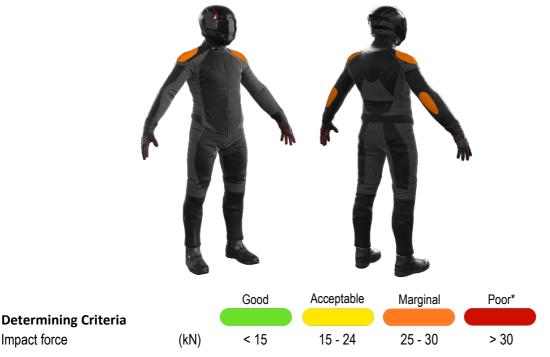


# **Impact Protection**

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

Impact protector type		Elbow			Shoulder	
Average force (kN)		28.1	Μ		23.8	A
Maximum force (kN)		30.0	Μ		27.6	Μ
Coverage of zone 1 area		95%			130%	
Coverage of zone after di	isplacement	60%			100%	
Individual test results						
Impact force (kN)	Elbow			Shoulder		
Strike location	Α	В	С	Α	В	С
Impact Protector 1	27.4	26.7	28.9	20.6	23.2	26.5
Impact Protector 2	28.6	28.1	28.8	20.8	23.9	27.6
Impact Protector 3	26.1	28.3	30.0			

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.

Impact force



# **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 <sub>et</sub>	27.3	25.8	26.5
(kPam²/W)			
	1	2	Average
	-		
Thermal Resistance - R <sub>ct</sub>	0.173	0.178	0.175

### 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.