


**This MotoCAP safety rating applies to:**

**Brand:** Dainese  
**Model:** Tempest 2 D-Dry  
**Type:** Jacket - Textile  
**Date purchased:** 9 August 2019  
**Sizes tested:** 56 and 58  
**Gender:** M & F  
**Style:** All Purpose  
**Test code:** J19T20

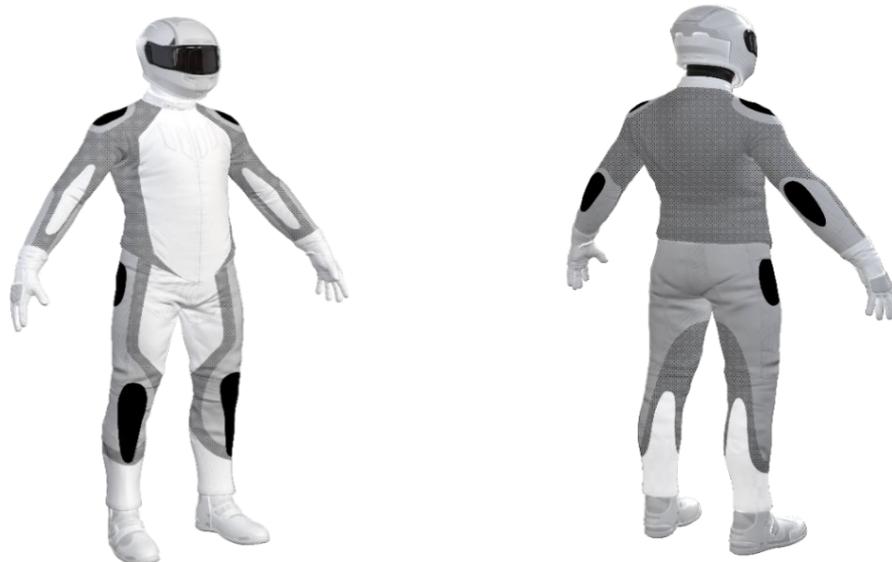
**Test Results Summary:**

	Rating	Score
MotoCAP Protection Rating	★	23.7
Abrasion	1/10	0.56
Burst	10/10	1165
Impact	4/10	30.9
MotoCAP Comfort Rating	★	0.160
Moisture Vapour Resistance		112.1
Thermal Resistance		0.299
Water resistance	1/10	26

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 closable vents on the sides of the chest and back to manage airflow movement through the garment. 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.


**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 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: Woven fabric shell, foam layer, water resistant layer and mesh inner liner  
 Material B: Woven fabric shell, water resistant layer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (seconds)						Average (seconds)	
		1	2	3	4	5	6		
<b>Zone 1 and 2 areas (High abrasion risk)</b>									
Material A	50%	1.82	1.18	1.28	1.95	1.12	1.29	1.44	M
Material B	50%	0.75	0.84	0.40	0.62	0.67	0.82	0.68	P
<b>Zone 3 area (Medium abrasion risk)</b>									
Material A	15%	1.82	1.18	1.28	1.95	1.12	1.29	1.44	M
Material B	85%	0.75	0.84	0.40	0.62	0.67	0.82	0.68	P
<b>Zone 4 area (Low abrasion risk)</b>									
Material B	100%	0.75	0.84	0.40	0.62	0.67	0.82	0.68	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.



Determining Criteria		Good	Acceptable	Marginal	Poor
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	1033	1159	1709	1612	1345	1372	G
Zone EZ	729	1419	800	1048	1357	1071	G
Zones 3 & 4	908	717	1091	1506	487	942	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 kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force (kN)	23.1	<span style="background-color: yellow; border: 1px solid black; padding: 2px;">A</span>	24.6	<span style="background-color: yellow; border: 1px solid black; padding: 2px;">A</span>
Maximum force (kN)	39.5	<span style="background-color: red; color: white; border: 1px solid black; padding: 2px;">P</span>	32.1	<span style="background-color: red; color: white; border: 1px solid black; padding: 2px;">P</span>
Coverage of zone 1 area	150%		150%	
Coverage of zone after displacement	80%		100%	

### Individual test results

Impact force (kN)	Elbow			Shoulder		
	A	B	C	A	B	C
Impact Protector 1	18.1	10.4	37.6	17.2	26.4	29.1
Impact Protector 2	12.9	19.7	39.5	21.4	26.3	32.1
Impact Protector 3	13.5	17.5	38.6	21.2	20.8	26.7

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 maximum force for each impact zone.



Determining Criteria	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: green; border-radius: 10px; width: 20px; height: 10px; margin-right: 5px;"></div> <span>Good</span> <div style="background-color: yellow; border-radius: 10px; width: 20px; height: 10px; margin-right: 5px;"></div> <span>Acceptable</span> <div style="background-color: orange; border-radius: 10px; width: 20px; height: 10px; margin-right: 5px;"></div> <span>Marginal</span> <div style="background-color: red; border-radius: 10px; width: 20px; height: 10px;"></div> <span>Poor*</span> </div>			
	Impact force (kN)	< 15	15 - 24	25 - 30

\* 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 - $R_{et}$ (kPam <sup>2</sup> /W)	111.2	112.9	112.1
	1	2	Average
Thermal Resistance - $R_{ct}$ (Km <sup>2</sup> /W)	0.283	0.315	0.299

### Water spray and rain resistance

This garment is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Garment 1	378	28%	112	40%
Garment 2	291	22%	32	11%
<b>Average</b>	335	25%	72	26%

### Location of wetting:

Visible wetting to the cotton underwear worn under the motorcycle water resistant garment was present over the neck and chest of both jackets tested.