


**This MotoCAP safety rating applies to:**

**Brand:** Triumph  
**Model:** Pure Riding  
**Type:** Pants - Denim  
**Date purchased:** 19 August 2019  
**Sizes tested:** 36 and 38  
**Gender:** M  
**Style:** All Purpose  
**Test code:** P19D07

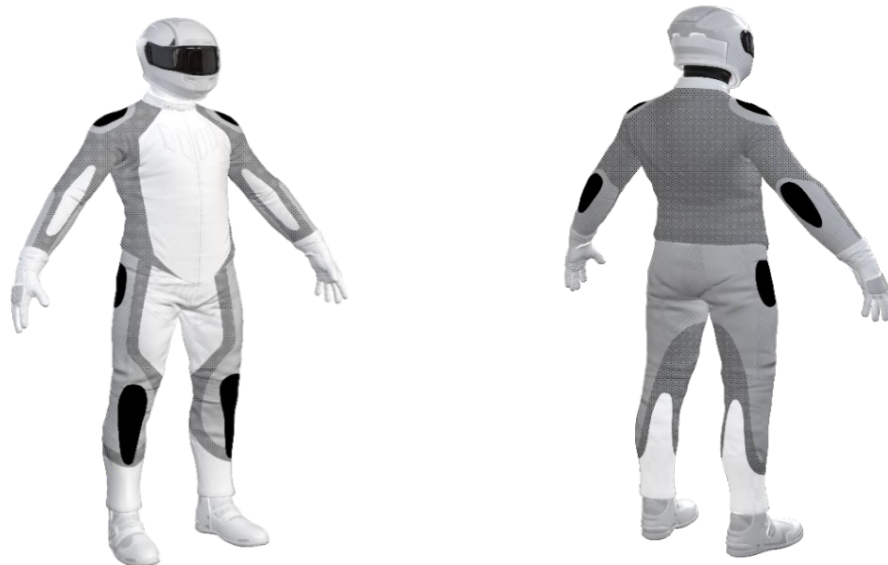
**Test Results Summary:**


|                            | Rating | Score |
|----------------------------|--------|-------|
| MotoCAP Protection Rating  | ★      | 23.0  |
| Abrasion                   | 2/10   | 1.74  |
| Burst                      | 10/10  | 1393  |
| Impact                     | 1/10   | 0.0   |
| MotoCAP Comfort Rating     | ★★★    | 0.526 |
| Moisture Vapour Resistance |        | 25.7  |
| Thermal Resistance         |        | 0.225 |
| Water resistance           | N/A    | N/A   |


This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for aftermarket impact protectors. There are no vents to allow airflow movement through the garment.


**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: | Denim fabric shell, aramid fabric layer and mesh inner liner |
| Material B: | Denim fabric shell with mesh inner liner                     |
| Material C: | Denim fabric shell   |

| 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                                     | 100%         | 3.19                                  | 3.07 | 1.74 | 2.75 | 2.54 | 2.47 | 2.63              | M |
| <b>Zone 3 area (Medium abrasion risk)</b>      |              |                                       |      |      |      |      |      |                   |   |
| Material B                                     | 100%         | 0.50                                  | 0.42 | 0.47 | 0.47 | 0.36 | 0.37 | 0.43              | P |
| <b>Zone 4 area (Low abrasion risk)</b>         |              |                                       |      |      |      |      |      |                   |   |
| Material B                                     | 50%          | 0.50                                  | 0.42 | 0.47 | 0.47 | 0.36 | 0.37 | 0.43              | M |
| Material C                                     | 50%          | 0.34                                  | 0.29 | 0.26 | 0.32 | 0.32 | 0.25 | 0.30              | P |

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)

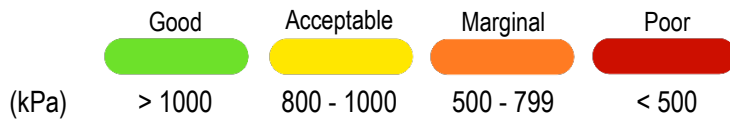
| Area        | 1    | 2    | 3    | 4    | 5    | Average |   |
|-------------|------|------|------|------|------|---------|---|
| Zones 1 & 2 | 1631 | 1937 | 1652 | 935  | 1815 | 1594    | G |
| Zone EZ     | 1939 | 1939 | 978  | 1334 | 943  | 1427    | G |
| Zones 3 & 4 | 846  | 1189 | 978  | 779  | 826  | 923     | 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.



#### Determining Criteria

Burst strength



### 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               | Knee |      |      | Hip                         |   |   |
|-------------------------------------|------|------|------|-----------------------------|---|---|
| Average force (kN)                  | 13.9 | G    |      |                             | P |   |
| Maximum force (kN)                  | 15.3 | A    |      |                             | P |   |
| Coverage of zone 1 area             | 130% |      |      | 0%                          |   |   |
| Coverage of zone after displacement | 50%  |      |      | 0%                          |   |   |
| <b>Individual test results</b>      |      |      |      |                             |   |   |
| Impact force (kN)                   | Knee |      |      | Hip                         |   |   |
| Strike location                     | A    | B    | C    | A                           | B | C |
| Impact Protector 1                  | 12.0 | 13.8 | 15.2 | No impact protector present |   |   |
| Impact Protector 2                  | 14.9 | 11.1 | 14.0 |                             |   |   |
| Impact Protector 3                  | 15.3 | 14.7 | 14.2 |                             |   |   |

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

Impact force (kN)      < 15      15 - 24      25 - 30      > 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 - $R_{et}$<br>( $kPam^2/W$ ) | 23.9  | 27.6  | 25.7    |
|   | 1     | 2     | Average |
| Thermal Resistance - $R_{ct}$<br>( $Km^2/W$ )           | 0.220 | 0.230 | 0.225   |

### 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.