



This MotoCAP safety rating applies to:

Brand Resurgence

Model Heritage Skinny Fit Type Pants - Denim

Date purchased 12 September 2022

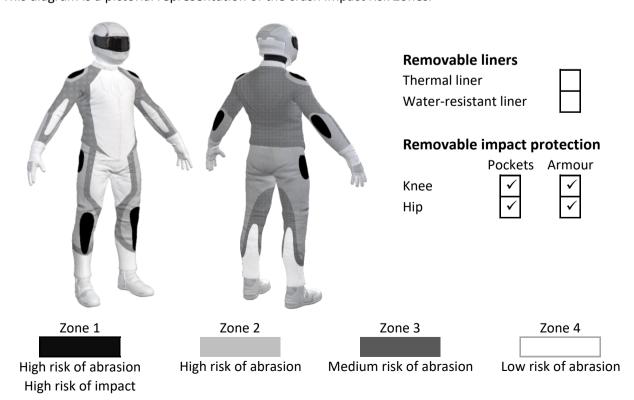
Sizes tested XL
Test garment gender Male
Style All Purpose
RRP \$299.95

| Test Results Summary | Rating | Score |
|------------------------------|--------|-------|
| MotoCAP Protection Rating | *** | 51.5 |
| Abrasion | 6/10 | 4.43 |
| Burst | 10/10 | 1390 |
| Impact | 7/10 | 51.6 |
| MotoCAP Breathability Rating | ** | 0.401 |
| Moisture Vapour Resistance | - | 41.4 |
| Thermal Resistance | - | 0.277 |
| Water resistance | N/A | N/A |

This garment is fitted with impact protectors for the knees and hips. 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.





Abrasion Resistance

These pants were tested for abrasion resistance in accordance with MotoCAP test protocols. 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 below. The colour coding is based on the worst performing material in each zone.



Abrasion Resistance Performance

| Abrasion rating | 6/10 |
|-----------------|------|
| Abrasion score | 4.43 |

| Determining Criteria | Area | Good | Acceptable | Marginal | Poor |
|-----------------------------|-------------|-------|------------|-----------|-------|
| High abrasion risk | Zones 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 |

Individual Abrasion Resistance Results: - 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. Abrasion times are capped at a maximum of 10.00s.

Abrasion time for each test (seconds)

| Zones 1 & 2 | Coverage (%) | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | Sample 6 | Average | |
|-------------|--------------|----------|----------|----------|----------|----------|----------|---------|---|
| Material A | 100% | 4.70 | 4.80 | 3.90 | 4.81 | 4.22 | 4.84 | 4.55 | Α |
| Zone 3 | Coverage (%) | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | Sample 6 | Average | |
| Material A | 100% | 4.70 | 4.80 | 3.90 | 4.81 | 4.22 | 4.84 | 4.55 | G |
| Zone 4 | Coverage (%) | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | Sample 6 | Average | · |
| Material A | 80% | 4.70 | 4.80 | 3.90 | 4.81 | 4.22 | 4.84 | 4.55 | G |
| Material B | 20% | 0.67 | 0.54 | 0.50 | 0.61 | 0.49 | 0.38 | 0.53 | М |

Details of materials used in pant

Material A Denim fabric shell, para-aramid fabric layer and mesh inner liner Material B Denim fabric shell



Burst Strength

These pants were tested for burst strength in accordance with MotoCAP test protocols. 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 below.



| Burst Strength | n Performance | |
|----------------|---------------|--|
| Burst rating | 10/10 | |
| Burst score | 1390 | |

| Determining Criteria | Unit | Good | Acceptable | Marginal | Poor |
|-----------------------------|-------|--------|------------|-----------|-------|
| Burst strength | (kPa) | > 1000 | 800 - 1000 | 500 - 799 | < 500 |

Individual Burst Strength Results: - 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 for each seam (kPA)

| Area | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | Sample 6 | Average | |
|-------------|----------|----------|----------|----------|----------|----------|---------|---|
| Zones 1 & 2 | 1473 | 1490 | 1471 | 1646 | 1543 | 800 | 1404 | G |
| Zones 3 & 4 | 867 | 873 | 1626 | 1665 | 1880 | 1098 | 1335 | G |



Impact Protection

These pants were tested for impact protection and coverage in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table below. The colour coding is based on the worst performing score for average or maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance

| Impact rating | 7/10 |
|---------------|------|
| Impact score | 51.6 |

| Determining Criteria | Unit | Good | Acceptable | Marginal | Poor* |
|-----------------------------|------|------|------------|----------|-------|
| 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

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

| Impact protector type | Knee | | Hip | |
|-------------------------------------|------|-------------|--------|---|
| Average force (kN) | 17.6 | A | 18.3 A | 1 |
| Maximum force (kN) | 18.3 | A | 19.3 A | |
| Coverage of Zone 1 area | 110% | | 130% | _ |
| Coverage of Zone after displacement | 60% | | 100% | |

Individual Impact Protector Results: - The table below shows the test results for each strike on individual impact protectors in kilonewtons (kN) and the position of the strike. Individual strike results are capped at a maximum of 50kN.

Force transfer for each impact strike (kN)

| Impact protector type | Knee | | | Hip | | |
|-----------------------|--------|------|------|--------|------|------|
| Strike location | Centre | Mid | Edge | Centre | Mid | Edge |
| Impact Protector 1 | 16.7 | 18.3 | 18.0 | 18.3 | 17.2 | 18.1 |
| Impact Protector 2 | 17.9 | 16.9 | 17.6 | 19.0 | 19.3 | 17.8 |
| Impact Protector 3 | 18.1 | 17.2 | 17.3 | 19.2 | 17.5 | 18.2 |



Breathability

These pants were tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

| Without removable liners | | With water-resistant liner | | |
|-------------------------------------|--|--|--|--|
| Breathability rating ★★ | | thability rating | N/A | |
| 0.401 | Brea | Breathability score | | |
| stance - R _{et} (kPa.m²/W) | 1 | 2 | Average | |
| S | 41.5 | 41.4 | 41.4 | |
| r | N/A | N/A | N/A | |
| R _{ct} (K.m²/W) | 1 | 2 | Average | |
| S | 0.292 | 0.263 | 0.277 | |
| r | N/A | N/A | N/A | |
| | ★★ 0.401 Stance - R _{et} (kPa.m²/W) S r R _{ct} (K.m²/W) | ★★ Brea 0.401 Brea stance - Ret (kPa.m²/W) 1 s 41.5 r N/A Rct (K.m²/W) 1 s 0.292 | ★★ Breathability rating Breathability score 0.401 Breathability score Stance - Ret (kPa.m²/W) 1 2 Stance - Ret (kPa.m²/W) 1 2 N/A N/A N/A Ret (K.m²/W) 1 2 Stance - Ret (kPa.m²/W) 1 2 0.292 0.263 | |

Water spray and rain resistance

This pants have not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand Resurgence

Model Heritage Skinny Fit

Type Pants - Denim

Date purchased 12 September 2022

Tested by AMCAF, Deakin University

Report approved by MotoCAP Chief Scientist

Garment test reference P21D10
Rating first published Jaunary 2023
Rating updated 23 January 2023