



This MotoCAP safety rating applies to:

Brand: Saint
Model: Model 2
Type: Pants - Denim
Date purchased: 4 July 2018
Sizes tested: 36
Gender: M
Style: All Purpose
Test code: P18D02

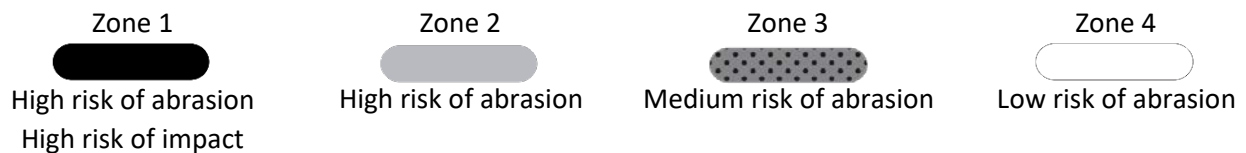
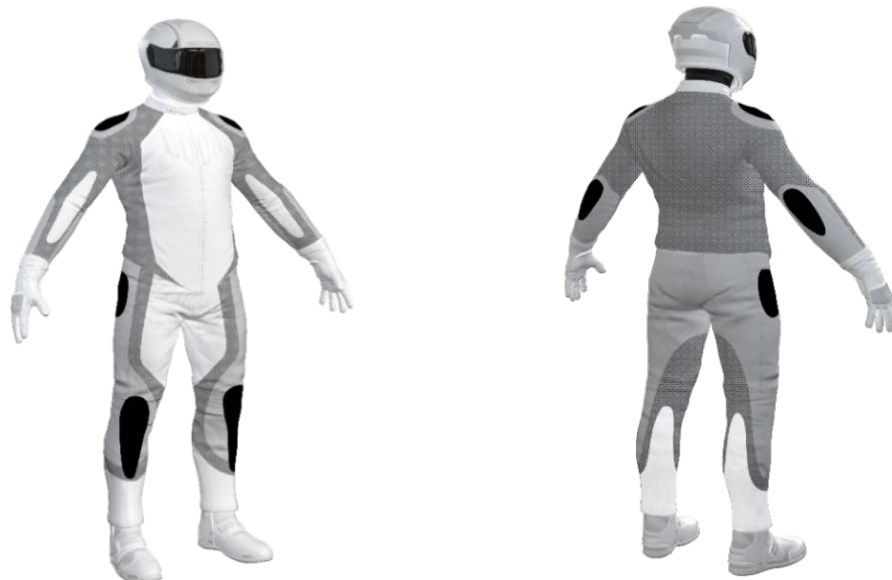
Test Results Summary:

| | Rating | Result |
|----------------------------|--------|--------|
| MotoCAP Protection Rating | ★★ | 39.5 |
| Abrasion | 1/10 | 1.16 |
| Burst | 8/10 | 900 |
| Impact | 7/10 | 52.4 |
| MotoCAP Comfort Rating | ★★★ | 0.500 |
| Moisture Vapour Resistance | | 19.0 |
| Thermal Resistance | | 0.158 |
| Water Resistance | N/A | |

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

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 following the 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: | Single layer of denim with black outer and white shiny inner yarn |
| Material B: | Single layer of denim with black outer and yellow inner yarn |

| Zone | Coverage (%) | Abrasion time for each test (s) | | | | | | Average (s) | |
|---|--------------|---------------------------------|------|------|------|------|------|-------------|-------------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| Zone 1 and 2 areas (High abrasion risk) | | | | | | | | | |
| Material A | 100% | 1.85 | 0.96 | 0.88 | 1.93 | 1.39 | 2.09 | 1.51 | <div><div>M</div></div> |
| Zone 3 area (Medium abrasion risk) | | | | | | | | | |
| Material B | 100% | 1.00 | 0.62 | 0.50 | 0.57 | 0.44 | 0.66 | 0.63 | <div><div>P</div></div> |
| Zone 4 area (Low abrasion risk) | | | | | | | | | |
| Material B | 100% | 1.00 | 0.62 | 0.50 | 0.57 | 0.44 | 0.66 | 0.63 | <div><div>M</div></div> |

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.



| | | 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 following the 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)

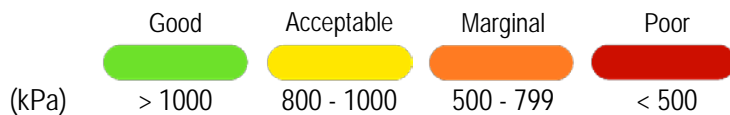
| Area | 1 | 2 | 3 | 4 | 5 | Average | |
|-------------|-----|------|-----|------|-----|---------|---|
| Zones 1 & 2 | 821 | 852 | 664 | 961 | 923 | 844 | A |
| Zone EZ | 831 | 1247 | 816 | 737 | 965 | 919 | A |
| Zones 3 & 4 | 968 | 1132 | 813 | 1095 | 845 | 971 | A |

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 following the 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 in percentage (%) within the Zone.





| | | | | |
|-------------------------------------|------|----------|------|----------|
| Impact protector type | Knee | | Hip | |
| Average force (kN) | 11.8 | G | 12.9 | G |
| Maximum force (kN) | 19.1 | A | 21.2 | A |
| Coverage of zone 1 area | 70% | | 150% | |
| Coverage of zone after displacement | 70% | | 100% | |

Individual test results

| | | | | | | |
|--------------------|------|------|------|------|------|------|
| Impact force (kN) | Knee | | | Hip | | |
| Strike location | A | B | C | A | B | C |
| Impact Protector 1 | 11.0 | 11.3 | 19.1 | 10.8 | 10 | 21.2 |
| Impact Protector 2 | 11.2 | 11.4 | 9.1 | 11.4 | 10.6 | 10.8 |
| Impact Protector 3 | 10.0 | 11.2 | 12.1 | 11.0 | 11.6 | 18.3 |

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



| | | | | | |
|-----------------------------|------|---|---|--|---|
| | | Good | Acceptable | Marginal | Poor* |
| | |  |  |  |  |
| Determining Criteria | | | | | |
| Burst strength | (kN) | < 15 | 15 - 24 | 25 - 30 | > 30 |

* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

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} (kPa m^2/W) | 19.7 | 18.3 | 19.0 |

| | 1 | 2 | Average |
|---|-------|-------|---------|
| Thermal Resistance - R_{ct} (K m^2/W) | 0.159 | 0.157 | 0.158 |

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.