C.A.R.E. STANDARDS – HOW THEY MEASURE UP

SAFETY

CATEGORY	INDUSTRY STANDARD	C.A.R.E. STANDARD
Impact absorption	There is no legal requirement for specially fitted left and right-hand protectors.	BMW Motorrad offers left and right-hand protectors that can be adapted to the rider's specific shape. It offers excellent impact absorption performance and has won countless consumer awards.
Tear resistance	Materials must be able to withstand a minimum force of 100 N/cm². (DIN EN ISO 13937-2:2000; tear resistance*)	The materials we use must be able to resist a force of at least 1000 N/cm ² .
Abrasion resistance	In standard industry testing, materials are exposed solely to an abrasive belt running at approx. 29 km/h. (DIN EN ISO 13595; abrasion resistance*)	The BMW testing institute simulates the impact, fall and slide of a 75-kg rider on motorway tarmac, at speeds of up to 120 km/h.
Helmet aerodynamics/ aeroacoustics		We analyse the aerodynamics and aeroacoustics for the helmet, rider and motorcycle together, over 20 hours of wind tunnel testing.
Helmet angles of sight	Standard regulations do not call for helmets to offer an expanded (and thus safer) field of vision.	By offering angles of sight that go beyond industry norms, our helmets provide a wider field of vision, particularly laterally.

,-----,

INNOVATION

CATEGORY	INDUSTRY STANDARD	C.A.R.E. STANDARD
Water resistance	According to DIN standards, fabric with a water head of 1,300 mm is considered waterproof. (DIN EN 20811:1992; water resistance*)	The BMW climate membrane offers a 10,000-mm head of water, while also being incredibly breathable.
Practicality	Legal requirements do not call for motorcycle clothing to be tested in use at all.	BMW Motorrad test riders assess the functionality of every item we produce over numerous rides (including endurance testing) in a range of weather conditions.
Helmet water resistance	There is no legal requirement to integrate seals within the structure of helmets. If desired, manufacturers can simply apply seals using adhesive.	Our innovative seals are built in to the structure of our helmets, and are not glued on. This ensures peerless protection and water resistance in even the toughest conditions.
Helmet angle of removal	By law, the maximum angle of removal permitted for helmets is 30 degrees (ECE 22.05 roll-off test*)	BMW Motorrad enduro helmets, for example, offer an angle of removal of no more than 15 degrees, thanks to their innovative neck straps.

COMFORT

CATEGORY	INDUSTRY STANDARD
it and ergonomics	In general, only standardized sizes are ava
leight-adjustable protectors	There is no legislation that requires known height-adjustable.
lelmet ventilation	Standard helmets offer ventilation aroun head only.

QUALITY

As there are no legal requirements for quality, we are using the appropriate DIN EN ISO standards as a basis. BMW Motorrad requirements dictate that at least 5 of the 7 criteria should be met.

INDUSTRY STANDARD	C.A.R.E. STANDARD
No industry standard.	Garments are spread out under xenon light to test their resistance to fading. (Taken from DIN EN ISO 105-B02:2002; resistance to fading*)
No industry standard.	Each material is placed alongside a wet or dry testing fabric, then rubbed together. The rub fastness is assessed based on the colouring of the test fabric. (Taken from DIN EN ISO 105-X12:2002; rub fastness*)
No industry standard.	Textiles are placed alongside a testing fabric soaked in sweat, and then rubbed together. (Taken from DIN EN ISO 105-E04:2013; fastness to perspiration*)
No industry standard.	Materials are tested for their resistance to oil, in the same way as the colour fastness analysis. (Taken from DIN EN ISO 105-X12:2002; rub fastness*)
No industry standard.	Textiles are subjected to the Martindale abrasion test, at a force of 9kPa over 4,000 cycles, to assess their resistance to wearing. (VDA 230-210:2008, taken from DIN EN 530:2013; fastener abrasion resistance*)
No industry standard.	Each material is rubbed against a standardized piece of test fabric over 30,000 cycles. (Taken from DIN EN ISO 12947-2:2007; wear resistance*)
No industry standard.	Textiles are sewn into a piece of test fabric, then placed in a beaker full of detergent solution and agitated. The test fabric is then dried, and the colouring assessed. (Taken from DIN EN ISO 105-C06:2010; textile washing fastness*)
No industry standard.	Our paint systems are subjected to strict testing to ensure they maintain their appearance and performance over time.
No industry standard.	In fatigue testing, the opening and closing of the visor and chin section is repeated over and over again. This ensures the helmet functions correctly throughout the entire life cycle.
	No industry standard. No industry standard.

	C.A.R.E. STANDARD
vailable. (DIN EN ISO 340*)	The sizes we offer are based entirely on the dimensions measured and supplied to us by our customers.
nee protectors to be	Our protectors are height-adjustable as standard, ensuring the perfect fit for each rider.
ind the upper part of the	BMW Motorrad helmets are designed to allow air to circulate around the entire head.