Storm-ST: The long-lasting, all-weather, high performance sports touring tyre

- Incorporates the very latest bike tyre technology 'Reactive Footprint'. The tyres contact patch changes size and shape depending on lean angle – for the life of the tyre
- Unique construction means excellent performance combined with very long life
- 'Super-Rich Silica' rubber compound gives superb wet road grip

- Front tread pattern optimised for shorter stopping distances in the wet
- Excellent stability and handling whatever the lean angle

The Storm-ST replaces Avon's Azaro-ST and builds on its predecessor's talents. Employing what's called 'Reactive Footprint' (RF) technology, the Storm-ST produces a footprint that changes size and shape depending on the bike's lean angle, growing in size the further over the bike goes. It means you get high grip through the corners yet in a straight line have a footprint which increases the Storm-STs lifespan. Avon's RF Technology questions the need for dual compound tread, which has uneven wear patterns associated with it.

The wet weather performance of the Storm-ST is outstanding, thanks in part to the tyre's Super-Rich Silica (SRS) compound. The extremely high silica content delivers optimum grip in the wet and dry. It also has the added benefit of warming up quickly.

On the front tyres, the Storm-ST benefits from Inverted Front Grooves (IFG) that resist stepped-wear and cupping, ensuring smooth handling for the life of the tyre and improving wet weather braking. The Enhanced Aqua Flow (EAF) pattern of the rear tyre also increases your safety and confidence in wet conditions.

With all this (together with many other unique-to-Avon technologies) it's no wonder the Storm-ST has gained numerous approvals from the tough German testing organisation, the TUV.

Specification

Size	Load/ Speed Index	Rec Rim (inch)	Alt Rim (inch) Min/Max	Overall Width (mm)	Overall Dia (mm)
STORM ST AV55 FRONT					
110/70ZR17	(54W)	MT3.00	3.00 - 3.50	108	593
110/80ZR18	(58W)	MT2.50	2.15* - 3.00	109	631
120/60ZR17	(55W)	MT3.50	3.50 - 3.75	119	576
120/70ZR17	(58W)	MT3.50	3.50 - 3.75	118	603
120/70ZR18	(59W)	MT3.50	3.50 - 3.75	119	625
130/70ZR17*	62V	MT3.50	3.50 - 4.00	128	614

Size	Load/ Speed Index	Rec Rim (inch)	Alt Rim (inch) Min/Max	Overall Width (mm)	Overall Dia (mm)
STORM ST AV56 REAR					
150/70ZR17	(69W)	MT4.00	4.00 - 4.50	156	641
150/70ZR18	(70W)	MT4.25	4.00 - 4.50	158	666
160/60ZR17	(69W)	MT4.50	4.25 - 5.00	164	627
160/70R17	79V	MT4.50	4.25 - 5.00	166	654
160/60ZR18	(70W)	MT4.50	4.25 - 5.00	167	648
170/60ZR17	(72W)	MT4.50	4.25 - 5.50	175	634
180/55ZR17	(73W)	MT5.50	5.50 - 6.00	186	629
190/50ZR17	(73W)	MT6.00	5.50 - 6.00	195	624
200/50ZR17	(75W)	MT6.25	6.00 - 6.50	204	630

1. ATAC Tread Profile, 2. EAF Pattern, 3. ES System, 4. Inverted Front Grooves, 5. Super Rich Silica, 6. Reactive Footprint, 7. Lifetime Profile Engineering, 8. A-VBD.

AVON TYRES

Typical Fitment

Model	Year	Recommended Fitment Front	Recommended Fitment Rear
APRILIA			
RSV 1000 MILLE SP	1999 2002	120/70ZR17	180/55ZR17 or 190/50ZR17
RSV 1000 Tuono Fighter / R	2003	120/70ZR17	190/50ZR17
BMW			
K1200 S	2005	120/70ZR17	190/50ZR17
R1200 RT/ST	2005 -	120/70ZR17	180/55ZR17
BUELL			
XB9, XB12 All models	1996 -	120/70ZR17	180/55ZR17
DUCATI			
944 ST-4 S ABS	2001 -	120/70ZR17	180/55ZR17
S4R	2004 -	120/70ZR17	180/55ZR17
998 All Models	2002 2004	120/70ZR17	190/50ZR17
1000 ST3	2004 -	120/70ZR17	180/55ZR17
1000 Monster S2R / Dark	2005 -	120/70ZR17	180/55ZR17
HONDA			
CB 600 Hornet Sport	2002	120/70ZR17	180/55ZR17
CBF 600	2004	120/70ZR17	160/60ZR17
CBR 600 F X, Sport, CBR 600 F4i/Sport	1999	120/70ZR17	180/55ZR17
CBR 600 RR, F4	2003 -	120/70ZR17	180/55ZR17
NT 650 Deauville	1998	120/70ZR17	150/70ZR17
VFR 800 FI, VTEC, Interceptor	2000 -	120/70ZR17	180/55ZR17
CB900 Hornet, CB919F	2002 -	120/70ZR17	180/55ZR17
CBR 929/954 RR Fireblade	2000 2004	120/70ZR17	190/50ZR17
CBF 1000	2006 -	120/70ZR17	160/60ZR17
CB 1100	1999	120/70ZR17	170/60ZR17
CBR 1100 XX Super Blackbird	1997 2005	120/70ZR17	180/55ZR17
ST 1100 A Pan European	1996 2002	120/70ZR18	160/70R17
KAWASAKI			
ZZ-R 600	2005 -	120/60ZR17	180/55ZR17
ER-6 n/f	2006 -	120/70ZR17	160/60ZR17
650R Ninja	2005	120/70ZR17	160/60ZR17
Z 1000	2003 -	120/70ZR17	190/50ZR17
ZX10 R Ninja	2004 -	120/70ZR17	190/50ZR17
ZRX 1200 (All Models)	2001 2004	120/70ZR17	180/55ZR17
ZX-12R Ninja	2004 -	120/70ZR17	200/50ZR17
ZZ-R 1200	2002 2005	120/70ZR17	180/55ZR17
ZX-14 / ZZR1400	2005 -	120/70ZR17	190/50ZR17

Model	Year	Recommended Fitment Front	Recommended Fitment Rear
SUZUKI			
GSX R 600	1997 -	120/70ZR17	180/55ZR17
GS 650 S Bandit	2005 -	120/70ZR17	160/60ZR17
SV 650 / S, SU	2003 -	120/60ZR17	160/60ZR17
GSX 750 F, Katana	1998 -	120/70ZR17	150/70ZR17
GSX R 750 Y, K1 -	2000 -	120/70ZR17	180/55ZR17
SV 1000 S	2003 -	120/70ZR17	180/55ZR17
GSX-R1000	2002 -	120/70ZR17	190/50ZR17
GSF 1200 / S / SA, Bandit	2006 -	120/70ZR17	180/55ZR17
GSX R 1300 Hayabusa	1999 -	120/70ZR17	190/50ZR17
TRIUMPH			
Daytona 650	2005 2005	120/70ZR17	180/55ZR17
Daytona 675 Triple	2006 -	120/70ZR17	180/55ZR17
900 Sprint RS	2000 2004	120/70ZR17	180/55ZR17
900 Sprint ST	1999 2004	120/70ZR17	180/55ZR17
900 Trophy, Sprint	1995 2001	120/70ZR17	170/60ZR17
955i Daytona	2005 -	120/70ZR17	190/50ZR17
Speed Triple 1050	2005 -	120/70ZR17	180/55ZR17
YAMAHA			
FZS 600 Fazer	1997 2001	110/70ZR17	160/60ZR17
FZ6 Fazer	2004 -	120/70ZR17	180/55ZR17
YZF-R6	2005 -	120/70ZR17	180/55ZR17
FZS 1000 Fazer FZ1	2001 2004	120/70ZR17	180/55ZR17
FZ 1 1000 Fazer	2006 -	120/70ZR17	190/50ZR17
YZF-R1 (RN09)	2002 -	120/70ZR17	190/50ZR17
FJR 1300A / AS	2006 -	120/70ZR17	180/55ZR17
XJR 1300	1999 -	120/70ZR17	180/55ZR17
1700 Road Star Warrior	2003	120/70ZR18	200/50ZR17
MT-01	2005 -	120/70ZR17	190/50ZR17

Technologies

RF (Reactive Footprint)

Reactive Footprint technology marries Avon's unique variable belt density A-VBD carcass with Lifetime Profile Engineering (LPE) to produce a footprint which changes size and shape depending on the bike's lean angle for the full life of the tyre. The result is a contact patch that grows as the bike leans, giving long life when travelling in a straight line and more grip in corners. This technological breakthrough questions the need for dual compounds and solves the uneven wear problems associated with them.

A-VBD (Advanced-Variable Belt Density)

Stands for Advanced-Variable Belt Density, specifically for rear tyres. This is a jointless belt of ultra strong Aramid fibres running around the tyre's circumference. At the centre of the tread the strands of aramid are very closely spaced for maximum stability and high wear resistance. The strands are progressively spaced out towards the tread edge to produce the characteristics of a multi-compounded tyre i.e. hard compound in the middle and a soft compound on the edge.

ATAC-TA Tread Profile

(Advanced Tread Arc Combination – Tri Arc)

ATAC varies the tread profile across the tyre for the ultimate in handling and stability however far over your bike is. Works in tandem with A-VBD.

SRS-Compound (Super Rich Silica-Compound)

Compounds formulated with large amounts of silica offer enhanced grip in wet and cold conditions. This produces extra grip when the tyre is cold but also reduces excessive heat build up which can affect mileage.

EAF Pattern (Enhanced Aqua Flow)

Front and rear tread patterns are computer designed for maximum throughput of water within the tyre footprint. This propels water away from the contact patch hence aiding water dispersion and maximising wet grip.

ES System (Enhanced Stability System)

The carcass, sidewall and tread pattern are designed to work in harmony so that the stresses absorbed by the tyre are distributed evenly. This reduces localised flexing within the tyre's structure. The result is an increase in grip and stability while at the same time reduces tread wear.

IFG (Inverted Front Grooves)

For the front tyre, a system pioneered by Avon in the late eighties and only now being adopted by the competition, resists 'stepped-wear' and cupping to deliver smooth handling throughout the tyre's life. By significantly reducing uneven tread wear, a further advantage of the IFG configuration is improved wet braking and shorter stopping distances.

LPE (Lifetime Profile Engineering)

This works in conjunction with ATAC to produce a tyre profile and footprint which even when worn, gives consistent handling and stability for the full life of the tyre.