

Technical Data – Audi S8 5.2 FSI quattro

Status: February 2006

Model	Audi S8 5.2 FSI quattro
Engine / electrics	
Engine type	Aluminium ten-cylinder V90° spark-ignition engine with FSI petrol direct injection, magnesium two-stage variable intake manifold with integrated charge movement flaps, regulated high-pressure and low-pressure fuel system
Valve gear / number of valves per cylinder	DOHC cylinder head, roller cam followers with hydraulic valve-play compensation, continuous camshaft adjustment for the intake and exhaust valves, maintenance-free timing assembly via chain / 4V
Displacement in cc / bore x stroke in mm / compression	5204 / 84.5 x 92.8 / 12.5
Max. power output in kW (bhp) / at rpm	331 (450) / 7000
Max. torque in Nm / at rpm	540 / 3500
Engine management / mixture preparation	Fully electronic engine management, single-rod ignition coils, 2 control units as 'master-slave' concept, drive-by-wire throttle control, sequential petrol direct injection, cylinder-selective lambda control, adaptive knock control, mapped ignition with solid-state high-voltage distribution, comfort and quick-start system / secondary air system, Bosch ME9
Exhaust emission control	Single-pipe manifold with 4 integrated main catalytic converters near to the engine, each with pre-catalyst and post-catalyst probe
Emission category	EU4
Alternator in A / battery in A/Ah	190 / 110
Drive / transmission	
Drive type	Permanent four-wheel drive with self-locking centre differential with asymmetric/dynamic distribution of torque and electronic stabilisation program ESP
Clutch	Hydraulic torque converter with lock-up clutch
Gearbox type	6-speed tiptronic with DSP and additional sport program
Gear ratio in 1st gear / 2nd gear	4.171 / 2.340
Gear ratio in 3rd gear / 4th gear	1.521 / 1.143
Gear ratio in 5th gear / 6th gear	0.867 / 0.691
Final drive ratio / reverse gear	4.055 / 3.403
Running gear / steering / brakes	
Front suspension	Four-link front suspension, double upper and lower wishbones, anti-roll bar, air suspension
Rear suspension	Self-tracking trapezoidal-link axle with wishbone, anti-roll bar, air suspension
Steering / turning circle in m (D102)	Maintenance-free rack-and-pinion steering with speed-dependent power assistance and variable ratio / approx. 12.1
Brake system, front/rear	Diagonally split dual-circuit brake system with ESP, brake servo, hydraulic brake assist, ventilated disc brakes at front and rear; front: dual-piston callipers; rear: electromechanical parking brake
Wheels/tyres	Cast aluminium wheels of "S" design, 9J x 20, 265/35 R20 99 Y
Performance / consumption / acoustics	
Maximum speed in km/h	250 (governed)
Acceleration 0-80 / 0-100 km/h in sec	3.6 / 5.1
Fuel grade	Super Plus or Euro-Super unleaded, 98/95 RON
Fuel consumption: urban/extra urban/mixte, l/100 km ¹⁾	19.7 / 9.7 / 13.4
CO ₂ mass emission, g/km ¹⁾	469 / 231 / 319
Standing / drive-past exterior noise level in dB (A)	88 / 74
Servicing / guarantee (Germany)	
Long-life service after a maximum of ... km	15,000 - 30,000 km according to service indicator (max. 2 years)
Vehicle / paint / rust penetration guarantee	2 years with unlimited mileage / 3 years / 12 years
Insurance classification in Germany	22 (third party) / 31 (fully comprehensive) / 31 (part-comprehensive)
Weights / loads	
Unladen weight in kg / gross weight limit in kg	1940 / 2540
Axle load limit at front / rear in kg	1380 / 1275
Trailer load limit, unbraked in kg	750
Trailer load limit on 8% / 12% gradient, braked in kg	2300 / 2300
Roof load limit in kg / permissible nose weight in kg	100 / 95
Capacities	
Cooling system capacity (incl. heating) in l	15.6
Engine oil capacity (incl. filter) in l	10
Fuel tank capacity in l	90
Body / dimensions	
Body type / number of doors / seats	Aluminium: Audi Space Frame ASF / 4 / 5
Drag coefficient c _D / frontal area A in m ²	0.286 / 2.31
Length (L103) / width excl. mirrors (W103) / Height (H100); mm	5062 / 1897 / 1424
Wheelbase (L101) / track at front/rear (W101/W102), mm	2944 / 1620 / 1607
Height of loading lip in mm (H195)	695
Luggage capacity in l, acc. to VDA block method (V210)	500

¹⁾ according to the applicable EU directive