

Contacts:
Matthew Russell
Product & Technology Communications Manager
201-307-3783 / matthew.russell@bmwna.com

David J. Buchko
Advanced Powertrain Communications
201-307-3709 / dave.buchko@bmwna.com

Julian Arguelles
BMW Product & Technology Communications
201-307-3755 / julian.ja.arguelles@bmwna.com

Technical Data
2014 BMW 6 Series Gran Coupe

		640i Gran Coupe	650i Gran Coupe	M6 Gran Coupe	M6 Gran Coupe	640i xDrive Gran Coupe
Engine type		N55B3000	N63B4401	S63B44T0	S63B44T0	N55B3000
Transmission type		automatic transmission 8	automatic transmission 8	M-DCCT 7	manual transmission 6	automatic transmission 8
No of Doors / Seats	/	4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Veh. length	mm / inch	5009 / 197.2	5009 / 197.2	5009 / 197.2	5009 / 197.2	5009 / 197.2
Veh. width	mm / inch	1894 / 74.6	1894 / 74.6	1899 / 74.8	1899 / 74.8	1894 / 74.6
Veh. height	mm / inch	1392 / 54.8	1392 / 54.8	1393 / 54.8	1393 / 54.8	1392 / 54.8
Wheelbase	mm / inch	2968 / 116.9	2968 / 116.9	2964 / 116.7	2964 / 116.7	2968 / 116.9
Turning circle	m / ft	11.95 / 39.2	11.95 / 39.2	12.5 / 41	12.5 / 41	11.95 / 39.2
Ground clearance	mm / inch	126 / 5	126 / 5	107 / 4.2	107 / 4.2	126 / 5
Shoulder width front	mm / inch	1440 / 56.7	1440 / 56.7	1440 / 56.7	1440 / 56.7	1440 / 56.7
Shoulder width rear	mm / inch	1387 / 54.6	1387 / 54.6	1387 / 54.6	1387 / 54.6	1387 / 54.6
Legroom front	mm / inch	1069 / 42.1	1069 / 42.1	1069 / 42.1	1069 / 42.1	1069 / 42.1
Legroom rear	mm / inch	896 / 35.3	896 / 35.3	896 / 35.3	896 / 35.3	896 / 35.3
Max. headroom front	mm / inch	1030 / 40.6	1030 / 40.6	1030 / 40.6	1030 / 40.6	1030 / 40.6
Max. headroom rear	mm / inch	941 / 37	941 / 37	941 / 37	941 / 37	941 / 37
Luggage comp. capacity	m³ / ft³	0.460-1.265 / 16.2-44.7	0.460-1.265 / 16.2-44.7	0.460-1.265 / 16.2-44.7	0.460-1.265 / 16.2-44.7	0.460-1.265 / 16.2-44.7
Fuel tank capacity	liter / gal	70 / 18.5	70 / 18.5	80 / 21.1	80 / 21.1	70 / 18.5
Curb weight (US)	Kg / lbs	1901 / 4190	2009 / 4430	2009 / 4430	1994 / 4395	1980 / 4365
Weight distribution (empty car)	F/R	49.8 / 50.2	48.5 / 51.5	47.7 / 52.3	47.9 / 52.1	47.8 / 52.2
Gross veh. weight	Kg / lbs	2390 / 5270	2474 / 5455	2411 / 5315	2411 / 5315	2438 / 5375
Payload	Kg / lbs	411 / 905	411 / 905	401 / 885	417 / 920	411 / 905
Axle load limit front	Kg / lbs	1129 / 2490	1209 / 2665	1179 / 2600	1179 / 2600	1204 / 2655
Axle load limit rear	Kg / lbs	1295 / 2855	1320 / 2910	1261 / 2780	1261 / 2780	1326 / 2890
Engine type / Cylinders / Valves p.cyl.		in line, VANOS, Valvetronic / 6 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	in line, VANOS, Valvetronic / 6 / 4
Engine management		MEVD 17.2.6	MEVD 17.2.H	MSD 17	MSD 17	MEVD 17.2.6
Induction type		Single Twin Scroll Turbo	Twin Turbo	Two Twin Scroll Turbos	Two Twin Scroll Turbos	Single Twin Scroll Turbo
Injection type		High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection
Displacement	cm³ / inch³	2979 / 182	4395 / 268	4395 / 268	4395 / 268	2979 / 182
Stroke	mm / inch	89.6 / 3.5	88.3 / 3.5	88.3 / 3.5	88.3 / 3.5	89.6 / 3.5
Bore	mm / inch	84 / 3.3	89 / 3.5	89 / 3.5	89 / 3.5	84 / 3.3
Engine power / at rpm	hp @ rpm	315 / 5800-6000	445 / 5500-6000	560 / 6000-7000	560 / 6000-7000	315 / 5800-6000
Engine torque / at rpm	ft lbs (Nm) @ rpm	330 (450) / 1400-4500	480 (650) / 2000-4500	502 (680) / 1500-5750	500 (680) / 1500-5750	330 (450) / 1400-4500
Compression rate / Fuel type (recomm.)	:1 /	10.2 / Premium	10 / Premium	10 / Premium	10 / Premium	10.2 / Premium
Type of transmission		8HP45	8HP70	M-DKG 436	G	8HP45
Gear ratios 1st gear		4.714	4.714	4.806	4.055	4.714
2nd gear		3.143	3.143	2.593	2.396	3.143
3rd gear		2.106	2.106	1.701	1.582	2.106
4th gear		1.667	1.667	1.277	1.192	1.667
5th gear		1.285	1.285	1	1	1.285
6th gear		1	1	0.844	0.872	1
7th gear		0.839	0.839	0.671		0.839
8th gear		0.667	0.667			0.667
Reverse gear		3.295	3.317	4.172	3.677	3.295
Final drive		3.231	2.813	3.154	3.154	3.231
Steering type / Steering ratio	/:1	rack-and-pinion / 17.2	rack-and-pinion / 17.2	rack-and-pinion / 13.1	rack-and-pinion / 13.1	rack-and-pinion / 18
Front brake // Rotor Diameter	inch	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 16.1	disc ventilated // 16.1	disc ventilated // 13.7
Rear brake // Rotor Diameter	inch	disc ventilated // 13.6	disc ventilated // 13.6	disc ventilated // 15.6	disc ventilated // 15.6	disc ventilated // 13.6
Cd // Frontal	l / m² / ft²	0.29 // 2.24 / 24.11	0.29 // 2.24 / 24.11	0.33 // 2.3 / 24.76	0.33 // 2.3 / 24.76	0.32 // 2.24 / 24.11
Top speed	Km/h / mph	210 / 130	250 / 155	250 / 155	250 / 155	210 / 130
Top speed optional	Km/h / mph	250 / 155				250 / 155
Acceleration 0-60 mph	s	5.4	4.5	4.1	4.3	5.2
Acceleration 0-100Km/h	s	5.6	4.7	4.2		5.4
Acceleration 0-1000m	s	25.4	23.1	21.8		25.5
Fuel cons. city (official EPA)	mpg	20	17 preliminary	14	15	20 preliminary
Fuel cons. highway (official EPA)	mpg	30	25 preliminary	20	22	29 preliminary
Fuel cons. combined (official EPA)	mpg	24	20 preliminary	16	17	23 preliminary
Range	miles	444	370	338	359	426
Front tires		245/45 R18 100V XL RSC	245/40 R19 98V XL RSC	265/35 ZR20 99Y XL	265/35 ZR20 99Y XL	245/45 R18 100V XL RSC
Rear tires		245/45 R18 100V XL RSC	245/40 R19 98V XL RSC	295/30 ZR20 101Y XL	295/30 ZR20 101Y XL	245/45 R18 100V XL RSC
Front wheels		8J x 18 LM	8.5J x 19 LM	9.5J x 20	9.5J x 20	8J x 18 LM
Rear wheels		8J x 18 LM	8.5J x 19 LM	10.5J x 20	10.5J x 20	8J x 18 LM
Track front	mm / inch	1600 / 63	1606 / 63.2	1631 / 64.2	1631 / 64.2	1600 / 63
Track rear	mm / inch	1665 / 65.6	1671 / 65.8	1612 / 63.5	1612 / 63.5	1665 / 65.6

650i xDrive Gran Coupe
N63B44O1 automatic transmission 8
4 / 5 5009 / 197.2 1894 / 74.6 1392 / 54.8 2968 / 116.9 11.95 / 39.2 126 / 5 1440 / 56.7 1387 / 54.6 1069 / 42.1 896 / 35.3 1030 / 40.6 941 / 37 0.460-1.265 / 16.2-44.7 70 / 18.5
2089 / 4605 46.9 / 53.1 2549 / 5620 411 / 905 1270 / 2800 1924 / 2920
V 90 ° VANOS, Valvetronic / 8 / 4 MEVD 17.2.Hi Twin Turbo High precision direct injection 4395 / 268 88.3 / 3.5 89 / 3.5 445 / 5500-6000 480 (650) / 2000-4500 10 / Premium
8HP70 4.714 3.143 2.106 1.667 1.285 1 0.839 0.667 3.317 2.813
rack-and-pinion / 18 disc ventilated // 13.7 disc ventilated //13.6
0.31 // 2.24 / 24.11 250 / 155
4.3 4.5 23.2
16 24 19
352
245/40 R19 98V XL RSC 245/40 R19 98V XL RSC 8,5J x 19 LM 8,5J x 19 LM 1606 / 63.2 1671 / 65.8