

Superior Chemistry. Superior Performance.



# PASSENGER CAR MOTOR OILS

MAG 1 Passenger Car Motor Oils are fortified above standard ILSAC GF-5/SN performance requirements to give excellent anti-wear, anti-oxidancy, anti-corrosiveness, better sludge control, and TBN retention. Formulated with a new ZDDP additive for extended wear performance.

**Benefits:**

- Reduced friction for excellent protection against engine wear and improved fuel economy
- High resistance to viscosity and thermal breakdown
- Fights volatility burn-off to minimize engine deposits and exhaust emissions

### Typical Physical Properties of MAG 1 Passenger Car Motor Oils

	Method	Typical Results				
		5W-30	10W-30	10W-40	20W-50	SAE 30
<b>Viscosity Grade</b>		5W-30	10W-30	10W-40	20W-50	SAE 30
API		SN/GF-5	SN/GF-5	SN	SN	SN
Specific Gravity @ 60°F	ASTM D4052	0.8616	0.8717	0.8710	0.8829	0.8817
Flash °C (°F)	ASTM D92	204 (399)	204 (399)	204 (399)	206 (403)	208 (406)
Viscosity @ 100°C cSt	ASTM D445	10.38	10.29	15.33	17.81	10.99
Viscosity @ 40°C cSt	ASTM D445	62.94	67.73	106.5	165	88.95
Viscosity Index	ASTM D2270	154	138	152	119	109
NOACK Volatility, % loss	ASTM D5800	14.5	11.8	13.5	5.3	6.5
Pour Point °C (°F)	ASTM D5950	-45 (-49)	-42 (-44)	-39 (-38)	-33 (-28)	-33 (-28)
Cold Cranking Simulator cP at Temperature (°C)	ASTM D5293	6550 (-30)	6249 (-25)	6771 (-25)	8215 (-15)	N/A
High Temp High Shear Visc @ 150°C, cP	ASTM D4683	3.17	3.14	4.1	4.83	3.41
Zinc wt %	ASTM D5185	.091	.085	.091	.091	.085
Phosphorous wt %	ASTM D5185	.079	.077	.079	.079	.077
Calcium wt %	ASTM D5185	.169	.214	.169	.169	.214



QT



1 GAL



2.5 GAL



5 GAL



55 GAL

	Pack Size	5W-30	10W-30	10W-40	20W-50	SAE 30
<b>Stock #</b>	12/1 Quart	700 / MGC453PL	500 / MGC313PL	600 / MGC414PL	800 / MGC454PL	400 / MGC230PL
<b>Order #</b>	4/1 Gallon		506 / MG03134P	606 / MG04144S*	804 / MG04544S*	
	2/2.5 Gallon		502 / MG031322	602 / MG041422		402 / MG023022
	5 Gallon		504 / MG03135G			
	55 Gallon	708 / MG045355	508 / MG031355	608 / MG041455	N/A / MG045455	406 / MG023055
<b>Each UPC</b>	12/1 Quart	0 71621-61652 9	0 71621-61648 2	0 71621-61650 5	0 71621-61654 3	0 71621-62646 8
	4/1 Gallon		0 71621-00506 4	0 71621-00606 1	0 71621-00804 1	
	2/2.5 Gallon		0 71621-00502 6	0 71621-00602 3		0 71621-00402 9
	5 Gallon		0 71621-00504 0			
	55 Gallon	0 71621-00708 2	0 71621-00508 8	0 71621-00608 5	0 71621-00801 0	0 71621-00402 9
<b>Case UPC</b>	12/1 Quart	0 71621-61653 6	0 71621-61649 9	0 71621-61651 2	0 71621-61655 0	0 71621-61647 5
	4/1 Gallon		0 71621-00592 7	0 71621-00692 4	0 71621-00894 2	
	2/2.5 Gallon		0 71621-00591 0	0 71621-00691 7		0 71621-00495 1
	5 Gallon		N/A	N/A	N/A	N/A
	55 Gallon	N/A	N/A	N/A	N/A	N/A
<b>Case SCC</b>	12/1 Quart	1 00 71621-61652 6	1 00 71621-61648 9	1 00 71621-61650 2	1 00 71621-61654 0	1 00 71621-61646 5
	4/1 Gallon		1 00 71621-00506 1	1 00 71621-00606 8	1 00 71621-00804 8	
	2/2.5 Gallon		1 00 71621-00502 3	1 00 71621-00602 0		1 00 71621-00402 6
	5 Gallon		N/A	N/A	N/A	N/A
	55 Gallon	N/A	N/A	N/A	N/A	N/A
<b>Case Dims.</b>	12/1 Quart	L 13.250" x W 10.250" x H 9.250"	L 13.250" x W 10.250" x H 9.250"	L 13.250" x W 10.250" x H 9.250"	L 13.250" x W 10.250" x H 9.250"	L 13.250" x W 10.250" x H 9.250"
	4/1 Gallon		L 18.875" x W 8.875" x H 12.500"	L 18.000" x W 13.750" x H 8.500"	L 18.000" x W 13.750" x H 8.500"	
	2/2.5 Gallon		L 14.000" x W 9.563" x H 14.375"	L 14.000" x W 9.563" x H 14.375"		L 14.000" x W 9.563" x H 14.375"
	5 Gallon		L 12.500" x W 12.500" x H 15.500"			
	55 Gallon	L 23.000" x W 23.000" x H 35.000"	L 23.000" x W 23.000" x H 35.000"	L 23.000" x W 23.000" x H 35.000"	L 23.000" x W 23.000" x H 35.000"	L 23.000" x W 23.000" x H 35.000"
<b>Case Cube/Pallet Cube</b>	12/1 Quart	0.727 / 77.500	0.727 / 77.500	0.727 / 77.500	0.727 / 77.500	0.727 / 77.500
	4/1 Gallon		1.210 / 61.111	1.217 / 52.777	1.217 / 52.777	
	2/2.5 Gallon		1.110 / 53.472	1.110 / 53.472		1.110 / 53.472
	5 Gallon		1.400 / 60.083			
	55 Gallon	10.710 / 44.444	10.710 / 44.444	10.710 / 44.444	10.710 / 44.444	10.710 / 44.444
<b>Case Weight/Pallet Weight</b>	12/1 Quart	24.425 / 2393.624	24.347 / 2386.033	24.357 / 2387.013	24.662 / 2416.884	24.500 / 2400.969
	4/1 Gallon		33.073 / 1719.815	33.379 / 1168.266	33.785 / 1182.491	
	2/2.5 Gallon		39.800 / 2223.054	39.817 / 1552.848		40.054 / 1562.105
	5 Gallon		52.93 / 2223.054			
	55 Gallon	430.283 / 1721.132	428.863 / 1715.452	429.046 / 1716.185	434.635 / 1738.538	431.657 / 1726.629
<b>Pallet Stack</b>	12/1 Quart	98 Cases (7 layers of 14)	98 Cases (7 layers of 14)	98 Cases (7 layers of 14)	98 Cases (7 layers of 14)	98 Cases (7 layers of 14)
	4/1 Gallon		52 Cases (4 layers of 13)	35 Cases (5 layers of 7)	35 Cases (5 layers of 7)	
	2/2.5 Gallon		39 Cases (3 layers of 13)	39 Cases (3 layers of 13)		39 Cases (3 layers of 13)
	5 Gallon		42 Eaches (3 layers of 14)			
	55 Gallon	4 Drums	4 Drums	4 Drums	4 Drums	4 Drums

\* Squat Gallon Packaging



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