



## ARCH QUANTUM

FULLY SYNTHETIC

### PRODUCT DESCRIPTION:

ARCH QUANTUM is a premium synthetic engine oil engineered to meet the newest API SQ and ILSAC GF-7 performance standards for modern gasoline engines. It provides outstanding protection against wear, sludge, and LSPI (Low Speed Pre-ignition), while improving fuel economy and ensuring long-lasting engine cleanliness.

### APPLICATION:

Recommended for gasoline engines across North American, European, and Japanese manufacturers, including those equipped with turbochargers and direct-injection systems. Suitable for engines requiring API SQ, ILSAC GF-7, or previous categories such as SP and GF-6. Fully compatible with catalytic converters and ethanol-blended fuels up to E85.

### FEATURES & BENEFITS:

ARCH QUANTUM delivers measurable performance advantages over previous GF-6 formulations:

- Delivers cleaner pistons with improved oxidation stability and deposit control.
- Provides better fuel economy and overall engine efficiency.
- Ensures stronger LSPI protection, even under aged-oil conditions.
- Minimizes timing-chain wear to help extend engine life.
- Enhances low-temperature pumpability for quicker lubrication on startup.
- Engineered for full GPF compatibility and readiness.
- Offers increased resistance to oil gelation and moisture exposure.
- Features improved elastomer compatibility with newly tested materials.

These benefits combine to deliver outstanding wear protection, deposit control, oxidation resistance, and enhanced emission-system durability for next-generation engines.

### PERFORMANCE LEVELS /MEETS OR EXCEEDS:

- API SQ
- API SP (OW-8 Viscosity grade is not applicable to API SP)
- JASO GLV-1
- ILSAC GF-7A/B

### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	ARCH QUANTUM						
Grade			OW-8	OW-16	OW-20	OW-40	5W-30	5W-40	10W-30
Kinematic Viscosity @40 °C	D7042	cSt	TBR	TBR	TBR	TBR	TBR	TBR	TBR
Kinematic Viscosity @100 °C	D7042	cSt	5.1	7.1	8.3	13.8	10.3	14.2	10.5
Viscosity Index	D2270	—	145	150	165	170	160	165	150
Density @15 °C	D4052	g/cm <sup>3</sup>	TBR	TBR	TBR	TBR	TBR	TBR	TBR
Flash Point (min)	D92	°C	220	220	220	235	225	235	230
Pour Point (max)	D97	°C	-45	-39	-49	-39	-39	-39	-36

**DISCLAIMER:** The test data presented above is indicative and not a strict specification, as it may vary within acceptable production tolerances. Internal reserves the right to update or modify this test data. For the most accurate and current information, please refer to the latest version of this Technical Data Sheet (TDS).

### HEALTH & SAFETY, ENVIRONMENT:

Continuous or repeated exposure to oil may lead to skin problems. Avoid contact with the oil. In case of contact, wash thoroughly with soap and water. Do not dispose of used oil in drains or the environment. Dispose of it at an authorized used oil collection point. For additional safety information, please refer to the MSDS available on our website at [www.internal.net](http://www.internal.net).

### PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.