

PennGrade 1[®] V-Twin 4-Stroke Motorcycle Oil SAE 20W-50



Product Description

PennGrade 1[®] V-Twin 4-Stroke Motorcycle Oil SAE 20W-50 is formulated with mineral based premium grade base oils and superior additive chemistry specifically designed with V-Twin domestic and imported motorcycle engine technology/lubrication needs in mind. It provides increased levels of 'zinc' (zinc dialkyldithiophosphate) for exceptional anti-wear/anti-scuffing protection. Detergents, dispersants and anti-oxidants offer protection from thermal and/or oxidative oil breakdown that can lead to varnish and deposit formation. Anti-foam agents reduce oil foaming and air entrainment under high-output, high revving conditions. It meets JASO MA frictional performance requirements for wet clutches and is suitable for use in applications calling for one lubricant for the engine, transmission/wet clutch and primary chain systems (if applicable).

Performance Advantages

The **PennGrade 1[®] V-Twin 4-Stroke Motorcycle Oil SAE 20W-50** affords premium grade base oils that provide exceptional film strength. It offers excellent High Temperature protection for air and water cooled 4-cycle engines and resists thermal and/or oxidative breakdown. This product provides superior high temperature/high shear viscosity. Additionally, it offers increased levels of 'zinc' (zinc dialkyldithiophosphate) for outstanding anti-wear/anti-scuffing protection. It meets JASO MA frictional performance requirements for use in wet clutches.

Typical Applications

PennGrade 1[®] V-Twin 4-Stroke Motorcycle Oil SAE 20W-50 is a good multi-viscosity choice for use in V-Twin engines such as those commonly found in Harley-Davidson[®] motorcycles where an SAE 20W-50, API Service SJ, CF or CH-4 quality motor oil is specified. Also suitable for use in S&S[®], RevTech[®] and other 4-stroke domestic and imported motorcycles where an SAE 20W-50 viscosity, API SJ, SH, SG, CH-4 or CF quality oil is specified. Always consult your owner's manual for proper oil viscosity and quality selection.



Typical Properties

SAE Viscosity Grade	Test Method	20W-50
API Service	SAE J183	CH-4, CF SJ, SH, SG
Viscosity @ 100°C, cSt @ 40°C, cSt	ASTM D445 ASTM D445	19.35 167
Viscosity Index	ASTM D2270	130
Pour Point, °F (°C)	ASTM D97	-27.4 (-33)
Flash Point, °F (°C)	ASTM D92	425 (218)
Sulfated Ash, Weight %	ASTM D874	1.2
API Gravity	ASTM D1298A	28.6
Density, lbs/gal (g/L)	Calculated	7.375 (884)
CCS, cP	ASTM D5293	6,750 @ (-15°C)
MRV, cP	ASTM D4598	40,000 @ (-20°C)
HTHS Viscosity, cP @ 150°C	ASTM D5481	5.7
Zinc, Mass %	ASTM D6481	N/A
Phosphorous, Mass %	ASTM D6481	N/A
Color	ASTM D1500	Green
TBN	ASTM D2896	9.1

D-A Part Number:

Case – 12/1 Qt

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