

## Environmental Protection Agency

## § 86.402-78

gas-fueled and liquefied petroleum gas-fueled motorcycles built after 31 December, 1996.

(b) Motorcycles with engine displacements less than 50 cc (3.1 cu in) are excluded from the requirements of this subpart.

(c) Motorcycles are excluded from the requirements of this subpart, if with an 80 kg (176 lb) driver, it cannot:

- (1) Start from a dead stop using only the engine; or
- (2) Exceed a maximum speed of 40 km/h (25 mph) on level paved surfaces.

[59 FR 48512, Sept. 21, 1994]

### § 86.402-78 Definitions.

(a) The definitions in this section apply to this subpart and also to subpart F.

*Act* means part A of title II of the Clean Air Act, 42 U.S.C. 1857 f-1 through f-7, as amended by Pub. L. 91-604.

*Administrator* means the Administrator of the Environmental Protection Agency or his authorized representative.

*Class*, see § 86.419.

*Crankcase emissions* means airborne substances emitted to the atmosphere from any portion of the engine crankcase ventilation or lubrication systems.

*Curb mass* means the actual or manufacturer's estimated mass of the vehicle with fluids at nominal capacity and with all equipment specified by the Administrator.

*Displacement*, and *Displacement Class*, see § 86.419.

*Engine family* means the basic classification unit of a manufacturer's product line used for the purpose of test fleet selection and determined in accordance with § 86.420.

*Engine-displacement-system combination* means an engine family-displacement-emission control system combination.

*EPA Enforcement Officer* means any officer or employee of the Environmental Protection Agency so designated in writing by the Administrator (or by his designee).

*Exhaust emissions* means substances emitted to the atmosphere from any opening downstream from the exhaust port of a motor vehicle engine.

*Fuel system* means the combination of fuel tank, fuel pump, fuel lines, oil injection metering system, and carburetor or fuel injection components, and includes all fuel system vents.

*Loaded vehicle mass* means curb mass plus 80 kg (176 lb.), average driver mass.

*Model year* means the manufacturer's annual production period (as determined by the Administrator) which includes January first of such calendar year. If the manufacturer has no annual production period, the term *model year* shall mean the calendar year.

*Motorcycle* means any motor vehicle with a headlight, taillight, and stoplight and having: Two wheels, or Three wheels and a curb mass less than or equal to 680 kilograms (1499 pounds).

*Oxides of nitrogen* means the sum of the nitric oxide and nitrogen dioxide contained in a gas sample as if the nitric oxide were in the form of nitrogen dioxide.

*Scheduled maintenance* means any adjustment, repair, removal, disassembly, cleaning, or replacement of vehicle components or systems which is performed on a periodic basis to prevent part failure or vehicle malfunction, or anticipated as necessary to correct an overt indication of vehicle malfunction or failure for which periodic maintenance is not appropriate.

*Span gas* means a gas of known concentration which is used routinely to set the output level of any analyzer.

*System* includes any motor vehicle modification which controls or causes the reduction of substances emitted from motor vehicles.

*Total test distance* is defined for each class of motorcycles in § 86.427-78.

*Useful life* is defined for each class (see § 86.419) of motorcycle:

Class I—5.0 years or 12,000 km (7,456 miles), whichever first occurs.

Class II—5.0 years or 18,000 km (11,185 miles), whichever first occurs.

Class III—5.0 years or 30,000 km (18,641 miles), whichever first occurs.

*Unscheduled maintenance* means any inspection, adjustment, repair, removal, disassembly, cleaning, or replacement of vehicle components or systems which is performed to correct or diagnose a part failure or vehicle

malfunction which was not anticipated.

*Zero kilometers* means that point after normal assembly line operations and adjustments, after normal dealer setup and prered inspection operations have been completed, and before 100 kilometers of vehicle operation of three hours of engine operation have been accumulated, including emission testing if performed.

(b) [Reserved]

[42 FR 1126, Jan. 5, 1977, as amended at 42 FR 56737, Oct. 28, 1977; 49 FR 48138, Dec. 10, 1984]

#### § 86.402-98 Definitions.

The definitions of § 86.402-78 apply to this subpart. The following definition in this section is applicable beginning with the 1998 model year:

*Motorcycle* means any motor vehicle with a headlight, taillight, and stoplight and having: Two wheels, or Three wheels and a curb mass less than or equal to 793 kilograms (1749 pounds).

[63 FR 11849, Mar. 11, 1998]

#### § 86.403-78 Abbreviations.

The abbreviations used in this subpart have the following meanings in both capital and lowercase:

ASTM—American Society for Testing and Materials.  
 C—Celsius.  
 cc—Cubic centimetre(s).  
 cfh—Cubic feet per hour.  
 cfm—Cubic feet per minute.  
 cm—Centimetre(s).  
 CO—Carbon monoxide.  
 CO<sub>2</sub>—Carbon dioxide.  
 Conc—Concentration.  
 cu.—Cubic.  
 CVS—Constant volume sampler.  
 EGR—Exhaust gas recirculation.  
 EP—End point.  
 EPA—Environmental Protection Agency.  
 F—Fahrenheit.  
 h—hour.  
 HC—Hydrocarbon(s).  
 Hg—Mercury.  
 H<sub>2</sub>O—Water.  
 in.—Inch(es).  
 K—Kelvin.  
 kg—Kilogram(s).  
 km—Kilometre(s).  
 kpa—Kilopascals.  
 lb—Pound(s).  
 m—Metre(s).  
 mph—Miles per hour.  
 mm—Millimetre(s).  
 N<sub>2</sub>—Nitrogen.

NO<sub>x</sub>—Oxides of nitrogen.

No.—Number.

O<sub>2</sub>—Oxygen.

Pa—Pascal(s).

Pb—lead.

ppm—Parts per million by volume.

psi—Pounds per square inch.

psig—Pounds per square inch gauge.

R—Rankine.

rpm—Revolutions per minute.

wt—Weight.

°—Degree(s).

%—Percent.

#### § 86.404-78 Section numbering.

(a) The year of initial applicability of a section is indicated by its section number. The two digits following the hyphen designate the first model year for which a section is effective. A section remains effective until superseded.

*Example:* Section 86.411-78 applies to 1978 and subsequent model years until it is superseded. If a § 86.411-81 is promulgated it would take effect beginning with 1981; § 86.411-78 would apply to years 1978 through 1980.

(b) A reference to a section without a year designation implies the appropriate model year.

*Example:* When considering 1979 vehicles a reference to § 86.411 implies § 86.411-79. However if no § 86.411-79 has been promulgated then § 86.411-78 is implied; See paragraph (a) of this section.

#### § 86.405-78 Measurement system.

(a) This subpart and subpart F have been written using System International (SI) units. SI units will be used to determine compliance with these regulations. English equivalents have been indicated solely for the user's convenience.

(b) [Reserved]

#### § 86.406-78 Introduction, structure of subpart, further information.

(a) This subpart contains general provisions regulating the emission of air pollution from new motorcycles. Test procedures are found in subpart F.

(b) Several discrete concepts are addressed:

(1) *Requirements.* Sections 86.407 to 86.415.

(2) *Application for certification.* Sections 86.416 and 86.417.

(3) *Test fleet selection.* Sections 86.418 to 86.423.