

76. EMISSION STANDARD FOR SO₂ FROM CUPOLA FURNACE :

Standard for Sulphur Dioxide emission from Cupola Furnace :

Characteristics	Emission limit
Sulphur dioxide (SO ₂) emission	300 mg/Nm ³ at 12% CO ₂ corrections

To achieve the standard, foundries may install scrubber, followed by a stack six times the diameter of the Cupola beyond the charging door.

Note : In case due to some technical reasons, installation of scrubber is not possible, then value of SO₂ to the ambient air has to be effected through the stack height.

77. SPECIFICATIONS OF MOTOR GASOLINE FOR EMISSION RELATED PARAMETERS :

Sl. No.	Characteristics	Requirement	Method of test ref.to P:of IS:1448
(i)	Reid Vapour Pressure at 38°C,Kpa	35 to 70	P : 39
(ii)	Benzeno, Percent by volume,Max	5.0 ⁽¹⁾	P : 104
(iii)	Lead Content(as Pb)g/l,Max	0.15(low leaded)(2) 0.013 (unleaded)	P : 38
(iv)	Sulphur, percent by mass, Max	0.10 (unleaded) 0.20 (leaded)	P : 34
(v)	Potential Gum, g/m3, Max	50	ASTM 873 : 8
(vi)	Gum (Solvent Washed)g/m3 Max	40	P : 29
(vii)	Oxygenates Content Ether (MTBE, ETBE) Alcohol, percent by volume, Max	15	
(viii)	Phosphorus	See Foot Note ⁽³⁾	ASTMD 3231

(1) 3.0 percent by volume maximum in metro cities by 2000 AD.

(2) 0.15 g/l by 31st December, 1996 (for entries country).
0.013 g/l by 1st April 1995 (in four metrocities);

by 1st December,1998(for all State capitals/UTs and major metro cities) and
by 1st April,2000 for the entire country.

(3) Phosphorous containing additives shall be absent.

Note :

- (a) Above specifications applied to leaded as well as unleaded petrol except lead content.
- (b) For new refineries coming up during or after 1997 the specification applicable by 2000 for existing refineries shall be applicable by 1997.

78. SPECIFICATION OF DIESEL FUEL FOR EMISSION RELATED PARAMETERS :

Sl.No.	Characteristics	Requirement	Method of Test Ref. To P : of IS : 1448
(i)	Density at 15° C, Kg/m ³	820 to 880 ⁽¹⁾	P : 32
(ii)	Cetane Number, Min	45° ⁽²⁾	P : 9
(iii)	Distillation 85 percent by volume recovery at °C Max 95 percent by volume recovery at °C,Max	350 370	P : 18
(iv)	Sulphur, percent by mass	0.50 ⁽³⁾	P : 33

(1) 820 to 860 by 2000 AD

(2) 48 by 31st December,1998(except in the refineries- Digboi, Gauhati and Bongaigaon Refineries & Petrochemicals Ltd.)

- (3) (i) 0.50 percent by mass by 1st April 1996 in four metros and Taj Trapezium;
- (ii) 0.25 percent by mass by 1st October,1996 in Taj Trapezium;
- (iii) 0.25 percent by mass by 1st April,1996 throughout the country.

Note :

- (a) Above specifications apply to HSD only.
- (b) For new refineries coming during or after 1997 specification applicable by 2000 for existing refineries shall be applicable by 1997.
- (c) 'P' refers to parts of IS : 1448.