



सीएसआईआर - को खो एवं ई० सं० परीक्षण प्रकोष्ठ
CSIR - CIMFR TESTING CELL
TEST CERTIFICATE / परीक्षण प्रमाण पत्र

Continuation Sheet



ORIGINAL COPY

FORMAT NO.: (CIMFR: DQM: FLP02: F-01:REV-01)
 (Flameproof & Equipment Safety)

ID NO.: 52/16

CODE NO. FLP/201A/15-16

Result # B1: Determination of Explosion pressure (Reference Pressure Test) *:

Gas mixture: Test with 8% Ethylene in air.

No. of tests: 3 nos. test with single enclosure.

Test Condition: Enclosure fitted with component and clause 15.1.2.1

Type of Test	Gas Group	Gas Mixture % in Air		No. of Tests	
Preliminary Test (reference pressure)	IIB	8% Ethylene in air		Three	
Test Ref. No.	Ignition	Gauge Position	Max. Pressure in Bar	Time of Pressure rise in millisecond	Remark
Single Enclosure (Well Glass Lighting Fitting)					
PPM/521601	Body	Body	3.5	7.92	No evidence of distress
PPM/521602	Body	Body	3.75	7.5	-do-
PPM/521603	Body	Body	3.83	7.98	-do-

*Results shown for the pressure time curve (enclosed) are the highest recorded value obtained in the test.

Result #B2: Overpressure Test (Static Method): Hydraulic pressure test is conducted as per Cl. 15.1.3.1 of IS/IEC 60079-1: 2007.

Enclosure	Test reference no.	Over pressure (kg/cm ²) maintained for 1 min.	Remark
Single Enclosure (Well Glass Lighting Fitting)	OPM/521604	6.0 kg/cm ²	No damage or deformation

Result #B3: Test for Non transmission of internal ignition:

Gas Mixture: Test with 37% Hydrogen in air for Gas Gr. IIB

No. of Tests: 5 nos. tests with Single enclosure.

Test Condition: Clause 15.2, Table 6 and 15.2.1.1 (No precompression required)

Name of Enclosure	Test Ref. Nos.	Gas Group	Gas Mixture % in Air	No. of Test	Result
Single Enclosure (Well Glass Lighting Fitting)	EIT/521605 to EIT/521609	IIB	37 % Hydrogen	Five	Pass

Q. 8.8.16.