



MALAYSIAN STANDARD

MS 830:2013

**Storage, handling and transportation of
liquefied petroleum gases (LPG) - Code of
practice
(Third revision)**

ICS: 75.200

Descriptors: liquefied petroleum gas, storage, handling, transportation, piping systems, dispensing stations

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Committee representation

The Industry Standards Committee on Petroleum and Gas (ISC H) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Malaysian Oil and Gas Engineering Consultants
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers - Malaysian Industrial Gases Manufacturers Group
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Pengangkutan Jalan Malaysia
Kastam Diraja Malaysia
Malaysian Gas Association
Malaysian Palm Oil Board
Malaysian Plastics Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism
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Shell Malaysia Trading Sdn Bhd
SIRIM Berhad (Secretariat)
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Teknologi Malaysia
Universiti Teknologi PETRONAS

The Technical Committee on Liquefied Petroleum Gas and Related Products which developed this Malaysian Standard consists of representatives from the following organisations:

Boustead Petroleum Marketing Sdn Bhd
Department of Occupational Safety and Health Malaysia
Gas Malaysia Berhad
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Pengangkutan Jalan Malaysia
Langsutra Sdn Bhd
Majugas Sdn Bhd
Ministry of Domestic Trade, Co-operatives and Consumerism
PETRONAS Dagangan Berhad
Petron Oil and Gas International Sdn Bhd
Shell Malaysia Trading Sdn Bhd
SIRIM Berhad (Secretariat)
Suruhanjaya Tenaga
Universiti Malaysia Pahang
Universiti Teknologi Malaysia

MS 830:2013

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Liquefied Petroleum Gas and Related Products under the authority of the Industry Standards Committee on Petroleum and Gas.

This Malaysian Standard is the third revision of MS 830, *Code of practice for the storage, handling and transportation of liquefied petroleum gases*.

Major modifications in this revision are as follows:

- a) the definition on “zone 1”, “zone 2” and “zone 3” had been rephrased in inline with latest MS IEC 60079-10-1;
- b) the requirements for the “qualification of personnel” had been clearly specified;
- c) Sections 2 and 3 had been rearranged in accordance to its application;
- d) new table 2 on “Container connection and appurtenance requirements for containers above 0.15 kl” had been incorporated;
- e) containers up to 0.5 kl water not more than four containers shall be permitted to be installed in a group with zero distances and maximum of two groups of containers are allowed for such purposes;
- f) the diagram for “Installation of containers up to 0.5 kl” had been incorporated as Figure 3;
- g) the requirements of fire extinguisher to be installed in the vehicle used for transport LPG had been specified in Subclause 7.3.6;
- h) the water capacity for the installation of cylinders had been changed from “not exceeding 125 L individual water capacity” to “not exceeding 150 L individual water capacity” which connected for use in commercial, industrial, residential, educational and institutional premises;
- i) the maximum of four numbers of manifolds permitted with zero distance to a building had been incorporated in 12.2.1 b);
- j) the requirements for drain had been incorporated as in 12.2.1 e); and
- k) the diagram for “Illustration showing two manifolded groups of cylinders” had been incorporated as Figure 10.

This Malaysian Standard cancels and replaces MS 830:2003.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.