

Ref: 01/03/2022-23

Date: 23.03.2023

To
Sh. Ajay K. Lal
Standardization Head (Chemical Department)
Bureau of Indian Standards
New Delhi.

Sub: Review of Indian Standard: **IS 1040 : 1987** (Specification for calcium carbide, technical (Third Revision))

Sir,

With reference to the Stakeholders Consultation Meeting held under the Chairmanship of Secretary (C&PC) on 14th March 2023 at FICCI Federation House, New Delhi in regard to making BIS Standards as mandatory in respect of 76 Chemicals which are listed under International Conventions and termed as 'Hazardous' under MSIHC Rules, this representation is being made for review of Indian Standard: IS 1040: 1987 (Specification for calcium carbide, technical (Third Revision)).

IS Number: IS 1040 : 1987
IS Title: Specification for calcium carbide, technical (Third Revision)
Technical Department: CHD (Chemical Department)
Technical Committee: CHD 01 (Inorganic Chemicals Sectional Committee)
Member Secretary: Mr. Sagar Singh

We as the largest manufacturer of Calcium Carbide in India hereby submit following suggestions that may be incorporated in IS 1040 : 1987 before making it mandatory in respect of Calcium Carbide:

a. Graded Sizes (Clause 4.1)

It is submitted that there are some additional grade sizes that are being consumed in large quantities by acetylene plants in the country and that may also be incorporated as part of the graded sizes in IS 1040 : 1987. Following material grade sizes may be added namely:

4 - 25 mm

b. Table 1 - Sieve Analysis of Calcium Carbide, Technical (Clauses 4.1 & 5.1)

It is submitted that the sieve analysis of following grades may be added in Table 1 (Clauses 4.1 & 5.1):

Graded Size mm	Characteristic	Requirement
4-25	Retained on the sieve having round holes of the size 10 mm, percent by mass, <i>Max</i>	70
	Dust, percent by mass, <i>Max</i>	5

SHRIRAM VINYL & CHEMICAL INDUSTRIES

Plot No 82, Sector 32, Institutional Area, Gurgaon, Haryana - 122003, India Tel: +91 124 6716000
Registered Office: DCM Shriram Ltd., 2nd Floor, (West Wing), Worldmark 1, Aerocity, New Delhi - 110037, India
www.dcmshriram.com
CIN No. L74899DL1989PLC034923



c. Table 2 - Gas yield of Calcium Carbide, Technical (Clause 5.2)

It is submitted that the gas yield of following grades may be added in Table 2 (clause 5.2) in IS 1040: 1987 :

Graded Size Mm	Gas Yield, L/kg (<i>Minimum</i>)			
	Quality A	Quality B	Quality C Grade 1	Quality C Grade 2
4 – 25	287	267	-	-

d. Packing (Clause 6.1)

It is submitted that for ease of handling of steel containers, additional packing sizes may also be incorporated in IS 1040: 1987 besides 50 kg & 100 kg in IS 1040. Following packing sizes may be added:

5 kg, 10 kg, 25 kg

e. Table 3 – Requirements for Acetylene Gas Evolved (Clause 5.3)

It is submitted that considering availability of different types of carbon raw material from time to time and that supply sources are not consistent, sulphur fluctuation may happen in carbon material. Because of challenges with regard to availability of suitable quality raw materials at all times, it is desirable to amend the characteristic related to Sulphur compounds in Table 3 (Clause 5.3) as under:

S.No.	Characteristic	Requirement for		
		Quality A	Quality B	Quality C
ii)	Sulphur Compounds (as H ₂ S), percent by volume, <i>Max</i>	0.30	0.30	0.30

I sincerely hope that the above submissions are considered favourably.

Thanking you

Yours Sincerely

Authorized Signatory

