

BC-533

Liquid Scintillator

BC-533 is a general purpose liquid scintillator designed to maintain its clarity and fluid state at -50°C. It has a high flash point, low cost and may be encapsulated in acrylic containers. The liquid is therefore ideally suited for use in large volume detectors, particularly where such systems are exposed to low temperatures.

BC-533 is supplied in anhydrous condition, sealed under inert gas.

Scintillation Properties –

Light Output, % Anthracene	51
Wavelength of maximum emission, nm	425
Decay time, principal component, ns	~ 3
Bulk Light Attenuation, meters	5

Atomic Composition –

No. of H Atoms per cc	6.79×10^{22}
No. of C Atoms per cc	3.47×10^{22}
H:C Ratio	1.96
No. of electrons per cc	2.76×10^{23}

General Technical Data –

Density (20°C)	0.80 g/cc
Refractive Index	1.45
Flash Point	65°C

Scintillation Products
Organic Scintillators



USA

Saint-Gobain Crystals
17900 Great Lakes Parkway
Hiram, OH 44234
Tel: (440) 834-5600
Fax: (440) 834-7680

Europe

Saint-Gobain Crystals
104 Route de Larchant
BP 521
77794 Nemours Cedex, France
Tel: 33 (1) 64 45 10 10
Fax: 33 (1) 64 45 10 01

P.O. Box 3093
3760 DB Soest
The Netherlands
Tel: 31 35 60 29 700
Fax: 31 35 60 29 214

Japan

Saint-Gobain KK, Crystals Division
3-7, Kojimachi, Chiyoda-ku,
Tokyo 102-0083 Japan
Tel: 81 (0) 3 3263 0559
Fax: 81 (0) 3 5212 2196

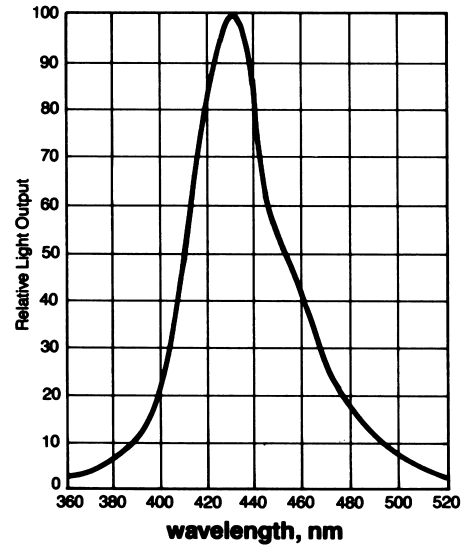
China

Saint-Gobain (China) Investment Co., Ltd.
15-01 CITIC Building
19 Jianguomenwai Ave.
Beijing 100004 China
Tel: 86 (0) 10 6513 0311
Fax: 86 (0) 10 6512 9843

www.detectors.saint-gobain.com

BC-533 Liquid Scintillator

Emission Spectrum –



Manufacturer reserves the right to alter specifications.
©2005-8 Saint-Gobain Ceramics & Plastics, Inc. All rights reserved.

(08-08)