

Radiation shielding

BORON-FLEX[®]



Use

Thermal neutrons absorption.

Description

Boron-Flex is a material made of natural rubber and B₄C powder. Boron-Flex sheets contains 50% its own weight of B₄C. The B¹⁰ included in our material absorbs the neutrons. The diffusion isn't significant compared with the neutrons absorption. The Boron-Flex is also used in neutron spectrometry to decrease the background noise.

Characteristics

- High flexibility enabling a complex conforming.
- It can be bent in a small radius even folded without breaking
- Uniform distribution of B₄C powder.
- Easy cutting
- Color black

Spécifications

- Hydrogen density : about 0,05 g / cm³
- The weight of Boron-Flex is composed of 50 % B₄C and 50 % rubber
- Hardness : 70 / 75 shore A
- Boron in B₄C : about 76 %
- Density : about 1,55 g / cm³
- Température limit : 80° C max

Réf	Thickness	Dimensions	Weight Kg	% B ₄ C Weight	Attenuation	λ
BF5	5	2000 x 500	8	50	> 10 ⁻³	> 1,8 Å
BF2	2	2000 X 500	3.2	50	> 16	> 1,8 Å

Dimensions in mm

Specifications subject to change without notice.