PHOTONICS BRETAGNE
Photonics Innovation Hub

SPECSHEET
09/2026

COMPONENTS

BORON STRESS RODS



The stress rods from Photonics Bretagne are manufactured to meet your demanding dimensional needs. A wide range of diameters/index of precision finished rods manufactured with tight tolerances is possible.

Product line PERFOS

MAIN CHARACTERISTICS

- High boron concentration
- Tight geometric tolerance
- Various core diameters and lengths

APPLICATIONS

- Polarisation maintaining fibres

SPECIFICATIONS	BDR-XX-YYY
Outside diameter [1] (mm)	< 13.5
Core diameter (mm)	< 8
Maximum index difference / Silica [2]	7.10^{-3}
Core ovality (%)	< 2
B_2O_3 concentration (mol%)	> 16
Appearance	Flawless
Bubbles counts (> 100 µm)	None

[1] The undoped external silica clad layer can be removed to leave only a thin layer (100 µm) around the doped core.

[2] Note that, due to the intrinsic stresses, the refractive index of the rod is not a suited measure for the boron doped content.

Cybel LIGHTING THE WAY
Sales: contact@cybel-llc.com | Web: www.cybel-llc.com | 62 Highland Ave., Bethlehem, PA 18017, USA | Tel: +1 (610) 691-7012

afaq ISO 9001 Qualité AFNOR CERTIFICATION

Copyright © 2024 Photonics Bretagne. All rights reserved. Photonics Bretagne reserves the right to modify the specifications without prior notice.

All our optical fibres and components are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments.