

## 锥形光纤

# Fiber taper products 可选UV,WF, WFGe Optran<sup>®</sup> UV, WF, Ultra WFGE



CeramOptec® 的熔融锥形光纤可部署在深紫外到近红外范围内。当输入和输出直径不同时,需要使用锥形产品。CeramOptec® 提供广泛的选择,包括特殊应用。

CeramOptec®'s fused tapered fi bers can be deployed from the deep UV to the NIR range. Taper products are required where input and output diameters diff er. CeramOptec® off ers a wide range of options, including for special applications.

#### 优势

- 温度范围广
- 高抗激光损伤性
- •特殊护套可用于高温、高真空和腐蚀性化学品
- •全介电、非磁性设计

#### **Advantages**

- · Broad temperature range
- High resistance against laser damage
- Special jackets available for high temperatures,
- high vacuum and harsh chemicals
- · All dielectric, non-magnetic design

### 公式

#### **Formula**

A tapered optical fiber acts as a beam diameter and numerical aperture converter, with the input beam being converted according to the following formula:

$$NA_2 := \frac{D_1}{D_2} NA_1$$

#### Technical data

Available fibers	Optran® UV   Optran® WF   Optran® WFGE
Wavelength	From deep UV to NIR
Core diameter	50 to 1500 μm
Standard taper ratios	2:1   3:1   4:1   5:1 or customized
Standard prooftest	100 kpsi
Minimum bending radius	5–100 mm (depending on the selected fiber diameter)