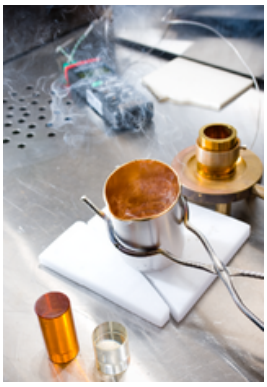
THE UNIVERSITY of ADELAIDE

ANFF
OPTOFAB - ADELAIDE

TELLURITE GLASS

Optofab Adelaide specialises in producing high-quality tellurite glass for high nonlinearity applications (e.g. supercontinuum generation) and laser applications. The glasses are melted under a controlled atmosphere to ensure high-purity and low water content. This glass is also available in a range of extruded forms. Tellurite glass has a wide transmission range of 0.4 to 4µm.

Undoped or rare-earth doped tellurite glass blocks of up to 50mL (300g) can be produced. These are available in a range of shapes as required by the end user. Rare earth iron dopants include: Erbium, Holmium and Thulium and more.


COMPOSITION $73TeO_2$ - $207nO$ - $5Na_2O$ - $2La2O_3$

PROPERTIES		ZBLAN GLASS
Optical	Transmission range	0.4~4.0µm
	Refractive index at 1550nd	1.98
Thermal	glass transition temperature	315°
	(Tg) Thermal expansion	170x10
Physical	Density	5.35g/cm

HIGH QUALITY OPTICAL FIBRE

Optofab Adelaide has the ability to transform the manufactured glass it into high-quality optical fibres through extrusion and drawing processes. The unique properties of Tellurite optical fibres, including their wide transmission range, low loss, and high power-handling capabilities, make them valuable for a variety of key applications in telecommunications, nonlinear optics, and optical amplifiers.

For pricing and availability contact:
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IPAS Institute for Photonics And Advanced Sensing

Government of South Australia

NCRIS National Research Infrastructure for Australia