



Sapphire and Fused Silica Lightguides for Medical Applications

Laser and Intense Pulsed Light (IPL) Lightguides are the key optical elements for Laser and/or IPL medical machines. Lightguides and filters are used mainly for cosmetic lasers and IPL machines for aesthetic applications, such as photorejuvenation, hair removal, vascular and acne treatment.

LT-PYRKAL excels in the production of low-cost, precision glass, silica and sapphire products. Synthetic Sapphire growing, shaping, grinding and polishing is our expertise. LT-PYRKAL chooses optical grade Sapphire crystal which has super high thermal conductivity to ensure the quality of Laser or IPL Lightguide.

LT-PYRKAL can manufacture all kinds of Laser and IPL Lightguides, which are made by Fused Silica and Sapphire crystal.

LT-PYRKAL has many years of experience and capability to design custom Lightguides to optimize

your special Laser or IPL machine with reasonable price from prototype to large volume quantity.

LT-PYRKAL supplies Laser and IPL Lightguides with all surfaces polished by advanced polishing technique. The high surface quality as 20/10, flatness better than A/10 is achievable. This special polished product can be made of materials such as BK7, Fused Silica, Sapphire and so on.

Fused Silica Lightguides - for high thermal conductivity, wearing-resistance and good transmission at the broad band wavelength. Fused Silica Lightguides are mainly used in laser hair removal and other aesthetic applications.

Sapphire Lightguides - sapphire rods and slabs are used in high temperature thermometry beyond the range of silica optics. Continuous contact cooling for increased patient comfort and enhanced durability is one of the main advantages of Sapphire.