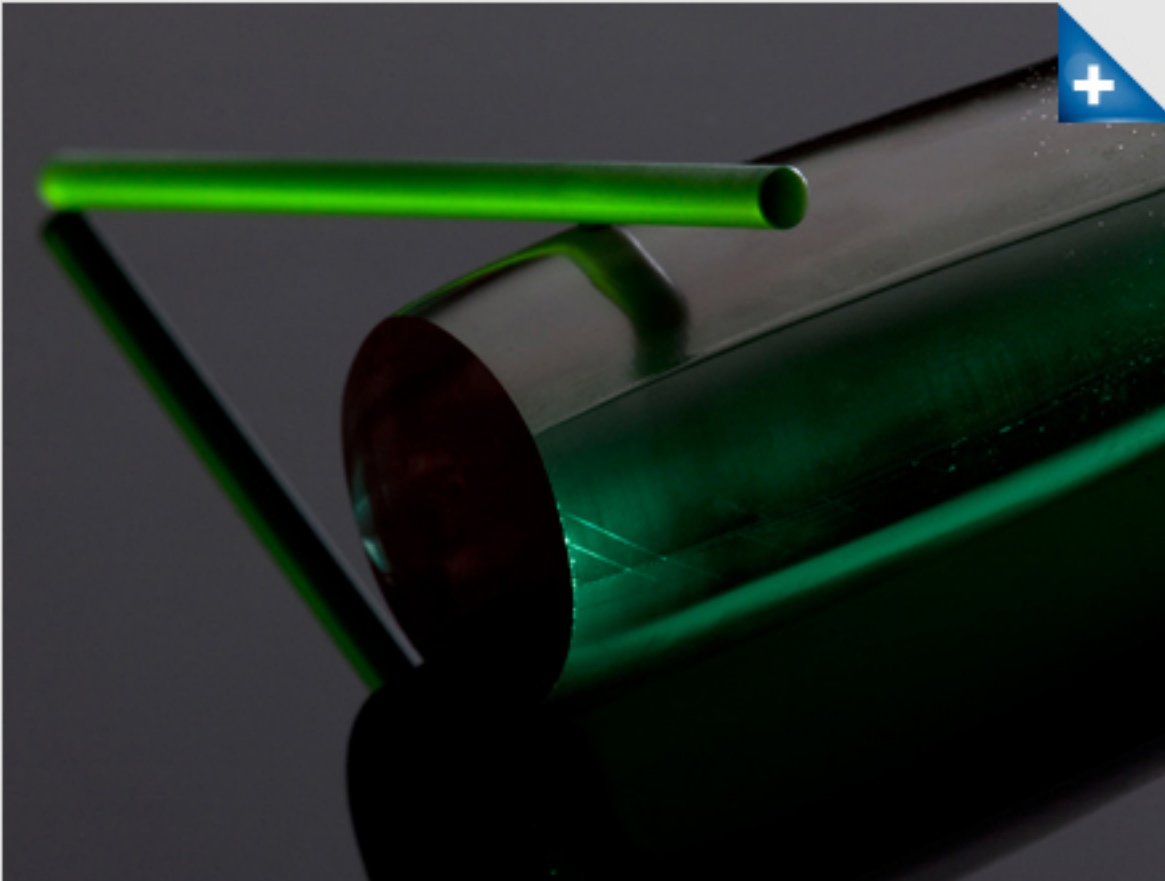


Laser Materials Gallium Garnet



General Information

SMC offers a variety of gallium garnet laser materials for your production and/or R&D efforts.

Dopant/Host combinations previously studied include:

- YSGG - Er, Cr activated YSGG is used in lamp pumped medical applications[1]
- GSGG - Nd, Cr activated GSGG is used for high transfer efficiency lamp pumped systems [2], [3]
- GGG
- TGG
- YGG
- LuGG

Gallium Garnet crystals are available with a variety of dopant ions including Er, Cr, Nd, Yb, Ce, Pr, Eu, Ho, & Tm.

[Contact us](#) with your specific requirements or for availability and pricing.

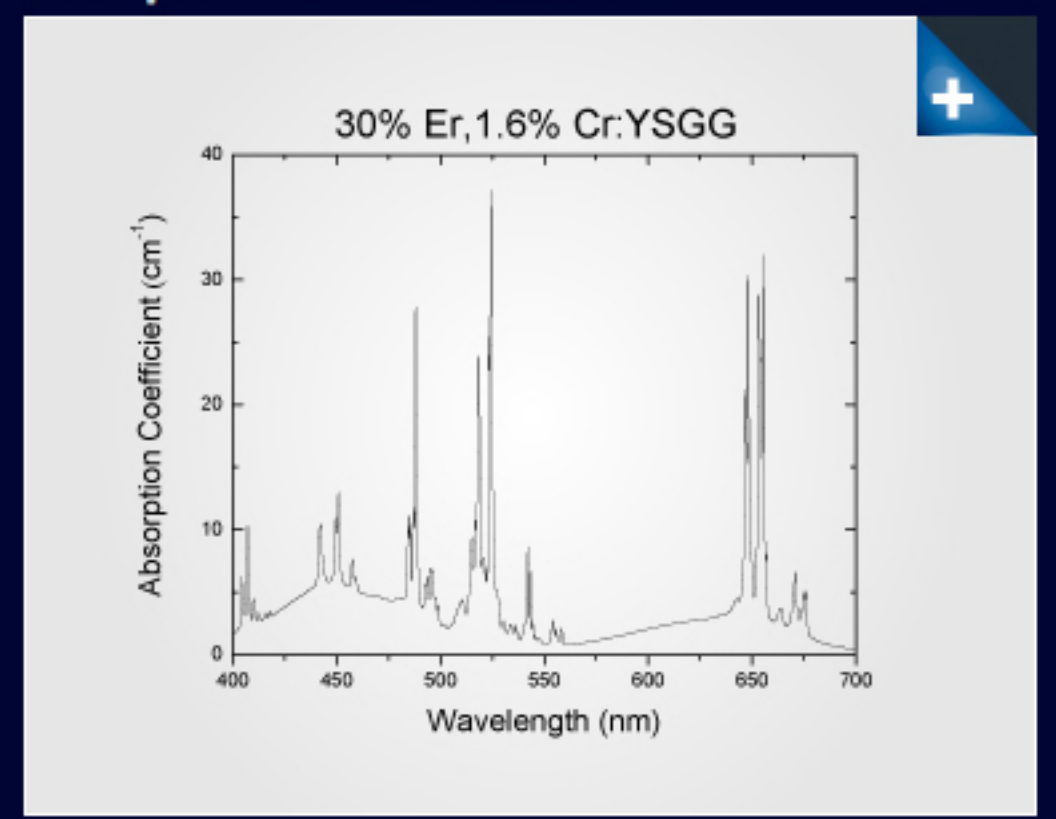
References

1) M. Hossain, et al., "Effects of Er,Cr:YSGG laser irradiation in human enamel and dentin: ablation and morphological studies." *M J Clin Laser Med Surg.* 1999;17(4):155-9.

2) W. Koechner, "Solid State Laser Engineering" 3rd Ed, Springer-Verlag NewYork (1992) ISBN:0-387-53756-2

3) D.Pruss et al., *Appl. Phys. B* 28, 234 (1982).

Absorption Coefficient Chart



Need Help? Please Call: **(406)585-3772** or Email: sales@scientificmaterials.com

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