

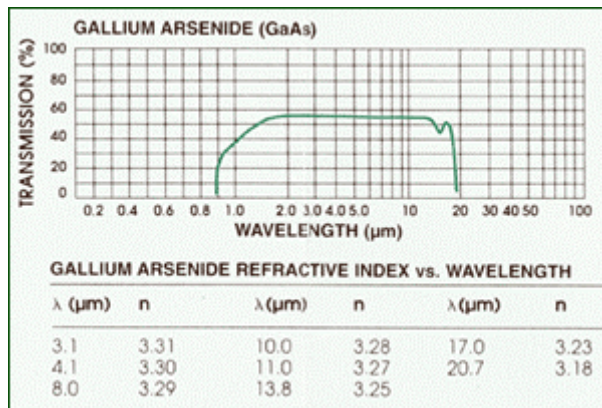
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GALLIUM ARSENIDE

Used for lenses and beam splitters and provides an alternative to ZnSe in medium to high power CW CO₂ laser systems. Gallium Arsenide is most useful in applications where toughness and durability are important. Its hardness and strength make it a good choice where dust or abrasive particles tend to build up on or bombard the optical surfaces. The material is non-hydroscopic, safe to use in laboratory and field conditions and is chemically stable except when in contact with strong acids.

Transmission Range	1 - 11.0 μ
Crystal Structure	-
Cleavage Plane	None
Colour	Metallic lustre
Density	5.32
Melting Point ($^{\circ}$)	1511
Reflection Loss	45% (12 μ) for 2 surfaces
Solubility index	Insoluble
Hardness (Knoop)	731kg/mm ²
Thermal Conductivity (cal/cm sec $^{\circ}$ C)	55W (m K) 300K
Thermal Expansion coefficient (/ $^{\circ}$ C)	5.7×10^{-6} 1/K at 300K



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy

