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Sapphire and Ruby Half-Ball Lenses



- Excellent for Severe Environments
- High Chemical Stability
- [Sapphire and Ruby Ball Lenses](#) Also Available

Common Specifications

Physical & Mechanical Properties

Specific Gravity (g/cm ³):	3.98	Compressive Strength (psi):	300,000
Diameter Tolerance (μm):	±2.54		

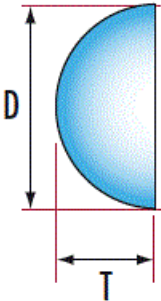
Optical Properties

Coating:	Uncoated		
Index of Refraction (n _d):	1.77	Sphericity (μm):	0.64

Environmental & Durability Factors

Melting Temperature (°C):	2053.00		
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Technical Information



Products

Dia. (mm)	Substrate	Type	Coating	Stock Number	Price	Buy
0.40	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#63-754	S\$44.10 Volume Pricing	20+ In Stock
0.50	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-553	S\$44.10 Volume Pricing	15 In Stock
1.00	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-428	S\$44.10 Volume Pricing	20+ In Stock
2.00	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-429	S\$44.10 Volume Pricing	20+ In Stock
2.50	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-554	S\$44.10 Volume Pricing	20+ In Stock
3.18	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-430	S\$44.10 Volume Pricing	20+ In Stock
4.00	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-555	S\$47.25 Volume Pricing	20+ In Stock
4.76	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-431	S\$47.25 Volume Pricing	20+ In Stock
5.00	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-432	S\$54.95 Volume Pricing	20+ In Stock
6.00	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-556	S\$59.50 Volume Pricing	20+ In Stock
6.35	Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#48-433	S\$66.85 Volume Pricing	20+ In Stock
0.50	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-557	S\$44.80 Volume Pricing	20+ In Stock
1.00	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-558	S\$44.80 Volume Pricing	20+ In Stock
2.00	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-559	S\$44.80 Volume Pricing	14 In Stock
2.50	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-560	S\$44.80 Volume Pricing	20+ In Stock
3.18	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-561	S\$44.80 Volume Pricing	20+ In Stock

4.00	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-562	S\$48.30 Volume Pricing	14 In Stock
4.76	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-563	S\$48.30 Volume Pricing	20+ In Stock
5.00	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-564	S\$55.65 Volume Pricing	20+ In Stock
6.00	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-565	S\$60.20 Volume Pricing	20+ In Stock
6.35	Ruby Doped Sapphire (Al ₂ O ₃)	Half-Ball Lens	Uncoated	#49-566	S\$67.55 Volume Pricing	20+ In Stock



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