

证券代码 (Stock Code):600330

SAPPHIRE OPTICAL & WINDOW PRODUCTS 蓝宝石光学&窗口产品





天通控股股份有限公司 TDG HOLDING CO., LTD

天通控股股份有限公司(股票代码: 600330)创建于1984年,于2001年在上海证券交易所挂 牌上市,是国内首家由自然人直接控股的上市公司,经过四十年的艰苦创业,天通拥有多家控股和 参股公司,目前已经形成电子材料、电子模组、智能装备、绿色能源四大业务板块,业务涵盖电子 信息材料产业链上下游,是集科研、制造、销售于一体的国家高新技术企业。

TDG Holding Co., Ltd (stock code: 600330) was founded in 1984 and listed on the Shanghai Stock Exchange in 2001. TDG is the first listed company in China that is controlled by individual shareholders. After forty years of development, TDG possesses several holding and joint stock companies, and now has formed four major business segments: electronic materials, electronic modules, intelligent equipment and green energy. Its business covers the upstream and downstream of the electronic information material industry chain and it is a high-tech enterprise integrating scientific research, manufacturing and sales.

徐州凯成科技有限公司 TDG XUZHOU KAICHENG TECHNOLOGY CO., LTD

徐州凯成科技有限公司成立于2021年,是天通控股股份有限公司的全资子公司,是集生产、销售、科研于一体的高新技术企业。徐州凯成科技是一家依托控股公司的蓝宝石长晶产业链为基础,以蓝宝石加工为核心竞争力,并将产品延伸至丝印、镀膜、贴合、组装等工序。公司产品广泛应用于智能穿戴、工业光学、医疗美容等行业。

Xuzhou Kaicheng Technology Co., Ltd was established in 2021 and is a wholly-owned subsidiary of TDG Holding Co., Ltd. It is a high-tech enterprise that integrates production, sales and scientific research. Xuzhou Kaicheng Technology is a company that relies on its holding company's sapphire industry chain as its foundation, with sapphire processing as its core competitiveness, and extends its products to processes such as INK printing, PVD, laminating and assembling. The products are widely used in smart wearable, industrial optics and medical beauty.





产品优势 Sapphire Advantages

- 高透过 High Transmittance
- 高耐热 High Heat Resistance
- 高耐磨 High Abrasion Resistance
- 高强度 High Strength
- 高化学稳定 High Chemical Stability



1000kg Sapphire Boule

产品规格 Product Specification					
晶锭公斤级 Weight (kg)	最大晶锭规格 Max Boule Specification (mm)		最大产品规格 Max Product Specification (mm)		
	直径 Diameter	高度 Height	圆形 Circles	方形 Squares	
160	420	360	D360	340*280	
400	560	530	D505	500*360	
800	690	750	D650	700*450	
1000	740	810	D680	750*500	







产品优势 Sapphire Advantages

- 高透过 High Transmittance
- 高耐磨 High Abrasion Resistance
- 高导热 High Thermal Conductivity
- 高化学稳定 High Chemical Stability





脱毛仪导光块 Sapphire Light Guide Block



美容仪导光块 Sapphire Light Guide Block





产品优势 Sapphire Advantages

- 高透过 High Transmittance
- 高耐磨 High Abrasion Resistance
- 高介电常数 High Dielectric Constant
- 高化学稳定 High Chemical Stability



蓝宝石手表盖板 Sapphire Watch Cover



蓝宝石手表心率背盖 Sapphire Back Cover



蓝宝石盖板产品 Sapphire Cover Products



蓝宝石摄像头盖板 Sapphire Lens Cover



蓝宝石指纹识别盖板 Sapphire Touch ID Cover

产品优势 Sapphire Advantages

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扫描仪视窗盖板 Sapphire Scanner Window Cover

投影仪盖板 Sapphire Projector Cover

蓝宝石材料特性

SAPPHIRE PROPERTIES

材料 Material	Al_2O_3		
密度 Density	3.98g/cm ³		
维氏硬度 Vickers Hardness	∥C16~17GPa ⊥A18~20GPa		
纯度 Purity	>99.996%		
莫氏硬度 Mohs Hardness	9		
杨氏模量 Young's Modulus	>420GPa		
泊松比 Poisson Ratio	0.27~0.3		
抗弯强度 Bending Strength	>350MPa		
熔点 Melting Point	2050°C		
线性热膨胀系数 Linear Coefficient of Thermal Expansion	232~323K ∥ C6.6 ⊥ C 0.5 310~670K ∥ C7.0 ⊥ C 7.7		
折射率 Refractivity	1.762-1.770		
热导率 Thermal Conductivity	46.06@0°C 25.12@100°C 12.56@400°C(W/(m.k)		
热容 Heat Capacity	0.10(cal/°C)		
双折射 Birefringence	0.008~0.010		
比热 Specific Heat	0.7788J/(g.K)@300K		
位错密度 (EPD) Etch Pit Density	<500 ea./ cm²		
半峰宽 FWHM	<15"		
透过率 Transmittance	≥85%@400-4000nm		
光学均匀性 Optical Uniformity	∆n≤4×10 ⁻⁵		
介电常数 Dielectric Constant	7.65@1575MHz/C axis 7.47@2450MHz/C axis 7.51@5000MHz/C axis		



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天通智造

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