

# Ceramic Silicon Nitride Outer Ring With V-groove Pulley



| Material                                          | Size  | Color     | Accuracy | Maximum Temperature | Circular Runout | Perpendicularity | Circularity | Parallelism | Applications                                     | RoHS      | Aluminum (Al) | Yttrium (Y) | Titanium (Ti) | Oxygen (O) | Carbon (C) | Other impurities less than | Density (g/cm <sup>3</sup> ) | Hardness (Hv) | Bending strength (MPa) | Compressive strength (MPa) | Elastic Modulus (GPa) | Fracture toughness (MPa·m <sup>1/2</sup> ) | Coefficient of thermal expansion (10 <sup>-6</sup> /°C) |
|---------------------------------------------------|-------|-----------|----------|---------------------|-----------------|------------------|-------------|-------------|--------------------------------------------------|-----------|---------------|-------------|---------------|------------|------------|----------------------------|------------------------------|---------------|------------------------|----------------------------|-----------------------|--------------------------------------------|---------------------------------------------------------|
| Silicon Nitride (Si <sub>3</sub> N <sub>4</sub> ) | Black | 5x30x15mm | 0.008mm  | 800°C(1472°F)       | 12um            | 12um             | 10um        | 12um        | Wire and cable production, industry wire drawing | Compliant | 2.0~3.5%      | 4.0~5.0%    | 1.0~1.5%      | 4.5~6.0%   | 0.3~0.8%   | 0.001                      | ≥3.20                        | 1400~1600     | >800                   | >4000                      | 300~315               | 6~8                                        | 2.2~3.0                                                 |