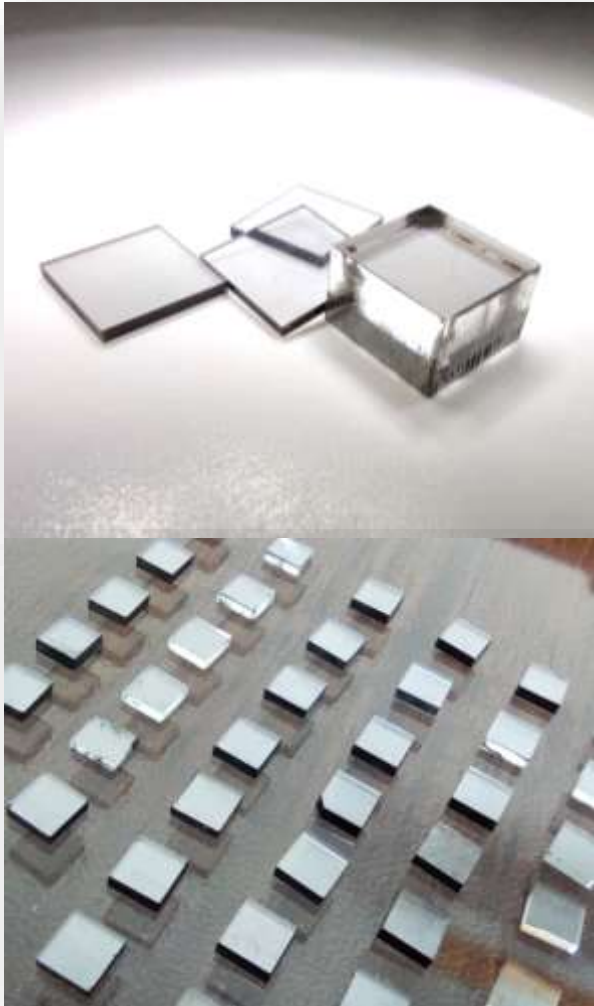


Product specifications can be customized according to customer requirements in terms of diamond size, Crystallographic orientation, NV concentration, NV depth, NV pattern, etc.

Customized NV Diamond



PARAMETER

Quantum Properties	Content
Typical NV center type	Single/Ensemble
Typical NV center density	***
Typical spin coherence time (T_2)	***
Typical spin coherence time (T_2^*)	***
Thermal Properties	
Thermal conductivity	$> 2000 \text{ Wm}^{-1}\text{K}^{-1}$
Coefficient of thermal expansion(300K)	$1.0 \pm 0.1 \text{ ppm} \cdot \text{K}^{-1}$
Coefficient of thermal expansion(1000K)	$4.4 \pm 0.1 \text{ ppm} \cdot \text{K}^{-1}$
Geometric properties	
Standard size	2~10 mm
Standard thickness	0.05-1 mm
Roughness(nm) upper and lower surfaces	$R_a < 5 \text{ nm}$
Roughness(nm) side surfaces	$R_a < 100 \text{ nm}$
Crystallographic orientation	100,110,111