

N-1160-70

Nano-silica solution

INTRODUCTION

Application: N-1160-70 is a nano-scale hollow silica solution. Its unique hollow structure enables a lower refractive index, and the nano-scale dispersion particle size gives the coating excellent transparency (>95%). When combined with a low-refractive-index base resin, it can be used in antireflective coatings, anti-glare films, fiber optic coatings, adhesive coupling layers, various optical display film materials, and as a nano-coating additive.

TYPICAL VALUES

Appearance	translucent liquid
Nanosilica(wt%)	20
Viscosity at 25℃, mPa.s	15-25
Solvent PGME(wt%)	75-80
Refractive index(nD ²⁵)	1.16
Relative Density	0.85-0.95
Nanoparticle Size	60-70nm

INTERMISCIBILITY

Monomer: Miscible with various conventional monomers.

Solvent: Miscible with esters, ketones, or aromatic solvents.

Polymer: Highly compatible with polyesters, epoxy resins, polyurethanes, phosphate esters, and acrylates to meet formulation needs.

packing: 1kg plastic bucket, 20kg plastic bucket

More detailed application references and MSDS are available upon request.

APPLICATION

UV coating: Optical film nano-coating, low refractive index! Possesses the physical, optical, and chemical properties of silica.