

TECHNICAL DATA



SPI Supplies
206 Garfield Avenue,
West Chester, PA 19380, USA

Cargille™ Immersion Oils: Type A, B, NVH

For regular microscopy: Optical and Physical Properties

Immersion Oil	Type A	Type B	Type NVH
Refractive Index @23° C:			
F Line (4861 Å)	1.5239	1.5236	1.5230
E Line (5461 Å)	1.5180	1.5180	1.5178
D Line (5893 Å)	1.5150	1.5150	1.5150
C Line (6563 Å)	1.5114	1.5116	1.5118
Dispersion: $n_F - n_C$	0.0125	0.0119	0.0113
Abbe V_D	41.3	43.2	45.7
Abbe V_E	41.0	42.8	45.4
Temperature Coefficient (15-35° C) - dn_D/dt	-0.00033	-0.00031	-0.00034
Stability (change in n_D @25° C after 24 hrs at stated temperature)*			
60° C:	0.0000	0.0000	0.0000
100° C:	0.0000	0.0000	0.0000
Fluorescence*:			
Short UV:	Low	Low	Low
Long UV:	Low	Low	Low
Color: (Gardner)	1	1	1
Viscosity: Centistokes +/-10% @ 23° C	150	1250	21,000
Density:			
@ 23° C g/cc:	0.923	0.923	0.919
(US) lb/gal	7.70	7.70	7.67
Cloud Point:	<-13° C	<-13° C	<-13° C
Flash Point:	325° F	325° F	325° F
Neutralization: (mg KOH/gm)	0.01 max	0.01 max	0.01 max

Date: 9/22/2015