

## N-SF6HTultra 805254.337

$n_d = 1.80518$	$v_d = 25.36$	$n_F - n_C = 0.031750$
$n_e = 1.81266$	$v_e = 25.16$	$n_F' - n_C' = 0.032304$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.74895
$n_{1970.1}$	1970.1	1.75541
$n_{1529.6}$	1529.6	1.76307
$n_{1060.0}$	1060.0	1.77341
$n_t$	1014.0	1.77486
$n_s$	852.1	1.78144
$n_r$	706.5	1.79114
$n_C$	656.3	1.79608
$n_{C'}$	643.8	1.79749
$n_{632.8}$	632.8	1.79883
$n_D$	589.3	1.80491
$n_d$	587.6	1.80518
$n_e$	546.1	1.81266
$n_F$	486.1	1.82783
$n_{F'}$	480.0	1.82980
$n_g$	435.8	1.84738
$n_h$	404.7	1.86506
$n_i$	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	1.77931763
$B_2$	0.338149866
$B_3$	2.087344740
$C_1$	0.01337141820
$C_2$	0.0617533621
$C_3$	174.0175900

Constants of Formula for $dn/dT$	
$D_0$	-4.93E-06
$D_1$	7.02E-09
$D_2$	-2.40E-11
$E_0$	9.84E-07
$E_1$	1.54E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.290

Temperature Coefficients of the Refractive Index						
[°C]	$\Delta n_{rel}/\Delta T$ [ $10^{-6}/K$ ]			$\Delta n_{abs}/\Delta T$ [ $10^{-6}/K$ ]		
	1060.0	e	g	1060.0	e	g
-40/-20	-0.7	1.2	3.9	-3.0	-1.2	1.3
+20/+40	-0.8	1.5	4.8	-2.3	0.0	3.1
+60/+80	-0.8	1.8	5.4	-2.0	0.6	4.1

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.800	0.570
2325	0.830	0.620
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.999
700	0.994	0.984
660	0.991	0.978
620	0.992	0.980
580	0.994	0.984
546	0.992	0.981
500	0.984	0.960
460	0.972	0.930
436	0.961	0.910
420	0.950	0.870
405	0.910	0.790
400	0.890	0.740
390	0.800	0.580
380	0.600	0.280
370	0.220	0.020
365	0.000	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	43/37

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2074
$P_{C,s}$	0.4610
$P_{d,C}$	0.2867
$P_{e,d}$	0.2356
$P_{g,F}$	0.6158
$P_{i,h}$	
$P'_{s,t}$	0.2039
$P'_{C,s}$	0.4969
$P'_{d,C'}$	0.2380
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.0010
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0146
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	10.3
$T_g$ [°C]	589
$T_{10}^{13}$ [°C]	590
$T_{10}^{7.6}$ [°C]	683
$c_p$ [J/(g·K)]	0.690
$\lambda$ [W/(m·K)]	0.960
$\rho$ [g/cm <sup>3</sup> ]	3.37
$E$ [ $10^3$ N/mm <sup>2</sup> ]	93
$\mu$	0.262
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.82
$HK_{0.1/20}$	550
HG	4
CR	1
FR	0
SR	2
AR	1
PR	1