

**FK3**  
**464658.227**

$n_d = 1.46450$	$v_d = 65.77$	$n_F - n_C = 0.007063$
$n_e = 1.46619$	$v_e = 65.57$	$n_{F'} - n_{C'} = 0.007110$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.43972
$n_{1970.1}$	1970.1	1.44498
$n_{1529.6}$	1529.6	1.45039
$n_{1060.0}$	1060.0	1.45557
$n_t$	1014.0	1.45612
$n_s$	852.1	1.45834
$n_r$	706.5	1.46106
$n_C$	656.3	1.46232
$n_{C'}$	643.8	1.46267
$n_{632.8}$	632.8	1.46300
$n_D$	589.3	1.46444
$n_d$	587.6	1.46450
$n_e$	546.1	1.46619
$n_F$	486.1	1.46939
$n_{F'}$	480.0	1.46978
$n_g$	435.8	1.47315
$n_h$	404.7	1.47625
$n_i$	365.0	1.48149
$n_{334.1}$	334.1	1.48708
$n_{312.6}$	312.6	1.49217
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.650	0.340
2325	0.810	0.590
1970	0.971	0.930
1530	0.988	0.970
1060	0.998	0.995
700	0.997	0.993
660	0.997	0.993
620	0.997	0.993
580	0.997	0.993
546	0.997	0.993
500	0.997	0.993
460	0.996	0.990
436	0.996	0.989
420	0.995	0.987
405	0.994	0.986
400	0.994	0.985
390	0.994	0.984
380	0.992	0.980
370	0.988	0.971
365	0.985	0.964
350	0.954	0.890
334	0.890	0.740
320	0.700	0.410
310	0.510	0.190
300	0.300	0.050
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3133
$P_{C,s}$	0.5644
$P_{d,C}$	0.3083
$P_{e,d}$	0.2387
$P_{g,F}$	0.5329
$P_{i,h}$	0.7419
$P'_{s,t}$	0.3112
$P'_{C',s}$	0.6097
$P'_{d,C'}$	0.2571
$P'_{e,d}$	0.2371
$P'_{g,F'}$	0.4736
$P'_{i,h}$	0.7370

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0207
$\Delta P_{C,s}$	0.0082
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	0.0079

Constants of Dispersion Formula	
$B_1$	0.973346627
$B_2$	0.146642231
$B_3$	0.679304225
$C_1$	0.00640795469
$C_2$	0.020565293
$C_3$	80.4965389

Constants of Dispersion $dn/dT$	
$D_0$	$-4.90 \cdot 10^{-6}$
$D_1$	$1.23 \cdot 10^{-8}$
$D_2$	$-1.19 \cdot 10^{-10}$
$E_0$	$3.45 \cdot 10^{-7}$
$E_1$	$7.72 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.18

Color Code	
$\lambda_{80}/\lambda_5$	33/30
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	
inquiry glass	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.4
$T_g [^\circ C]$	362
$T_{10}^{13.0} [^\circ C]$	369
$T_{10}^{7.6} [^\circ C]$	622
$c_p [J/(g \cdot K)]$	0.840
$\lambda [W/(m \cdot K)]$	0.900
$\rho [g/cm^3]$	2.27
$E [10^3 N/mm^2]$	46
$\mu$	0.243
$K [10^{-6} mm^2/N]$	3.71
$HK_{0.1/20}$	380
$HG$	0
$CR$	2
$FR$	3
$SR$	52.4
$AR$	2
$PR$	1

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	-0.7	-0.4	-0.1	-2.6	-2.4	-2.1
+20/ +40	-0.4	0.0	0.3	-1.7	-1.3	-1.0
+60/ +80	-0.6	-0.2	0.3	-1.6	-1.2	-0.8