



# POTAPENKO GLASS & FILTERS

(POTAPENKO S.V.).

c/o Mr. Serge Potapenko Tolstoy St. 10-22. Izum Ukraine. 64300.

Tel: +380574323415. Fax: +380574323415. Mobile: +380662255365.

Reg No: 04058806F0020209. VAT 2407300057.

**DATA SHEET # 32494:** page 1 of 1

## Na<sub>3</sub>AlF<sub>6</sub>-SiO<sub>2</sub> FLUORIDE SILICATE MC23 OPAL GLASS OPTICAL GRADE

### GLASS ATTRIBUTES:

		<u>Lambda, nm</u>	
Formula	fluoride silicate		Na <sub>2</sub> AlF <sub>6</sub> -SiO <sub>2</sub>
System	bi-phase		glass & crystal
Crystal phase	vol %		more 50
SiO <sub>2</sub>	wt %		58.73
Na <sub>3</sub> AlF <sub>6</sub>	wt %		6.30
Fe, Co, Ni, Cr, Cu			none
Colour	specular opaque		opal
Catalogue thickness	mm		3
Transmittance (diffusion)	av. %	VIS-Band	53

### OPTIC ATTRIBUTES:

		<u>Lambda, nm</u>	
Index	n <sub>589.3</sub>	589.3	1.520
Transmittance (diffusion)		<u>Thick, mm</u>	
	τ <sub>A</sub>	3	≥0.50
	τ <sub>A</sub>	2	≥0.60
	τ <sub>A</sub>	1	≥0.70

### MECHANIC ATTRIBUTES:

Specific gravity	g/cm <sup>3</sup>	2.63
------------------	-------------------	------

### THERMIC ATTRIBUTES:

Transformation temperature(Tg)	°C	520
Sag temperature(Ts)	°C	620

### CHEMIC ATTRIBUTES:

Climatic resistance	Gost Standard Method	standard
Acid resistance	Gost Standard Method	standard

### OTHER ATTRIBUTES:

#### Workmanship (ST): standard grade 3

Normal inclusions - homogeneities	nm	200
Abnormal inclusions is major 8 at 1dm <sup>2</sup>	mm	1.0
Transmittance homogeneity (TH)	%	10

#### Workmanship (SE): extra standard grade 2

Abnormal inclusions is minor 8 at 1dm <sup>2</sup>	mm	1.0
--	----	-----

#### Workmanship (PZ): precision grade 1

Abnormal inclusions is minor 8 at 1dm <sup>2</sup>	mm	0.2
--	----	-----

### RESUME:

The special glass due to the high-diffusional transmittance is optical standard for 100% super diffusional illuminant. The glass specification is Ukrainian Optical Industrial Standard 32494-85. The glass is typified as follows MC23 glass.