Glass designation : Med-X® Glass Blanks Code RWB46

Glass type : Lead Glass for X-ray protection
Application : Radiation Protection Glasses

MECHANICAL PROPERTIES						
Density :		>4.80	g/cm3			
	кр. Coef. :	78.8	(x10-7/°C)			
	: Soft. Pt	668	°c ′			
1	Ann. Pt	541	°C			
	Strain Pt	504	°C			
Poisson's Ratio		0.26	(√)			
Young's Modulus		62.6	(Gpa)			
Knopp Hardness		409	(kg/mm²)			
Torsion Modulus		24.8	(Gpa)			
REFRACTIVE INDEX						
Line		λ (nm)	Value			
F'	Cadmium	480.0	1.78018			
F	Hydrogen	486.1	1.77857			
е	Mercury	546.1	1.76651			
*d	Helium	587.6	1.76048			
C'	Cadmium	643.8	1.75424			
С	Hydrogen	656.3	1.75308			
Abbe Number						

 νd

29.83

TRANSMISSION PROPERTIES						
Path Thickness 2.0mm	Wavelength	Transmittances				
2.011111 3.5mm		85,7% 85.6%				
5.0mm		>85%				
6.5mm		85.4%				
7.0mm		85.3%				
8.5mm		85.2%				
10.0mm	550nm	85.1%				
10.011111 11.0mm		85.0%				
12.0mm		85.0%				
13.0mm		84.9%				
		0.110 / 0				
14.0mm		84.8%				
16.0mm		84.7%				
18.0mm		84.5%				
20.0mm		84.4%				
Indicative Component (in weight)						
Lead (Pb)		51.9%				
Barium (Ba)		17%				

COATING & TEMPERING	Vacuum coating	YES
(See also notes below)	Chemical tempering	NO
	Air tempering	YES

GLASS THICKNE	SS Lead e	Lead equivalence (mm) for stated X-Ray tube voltage			
mm	Inches	100KV	120KV	150KV	
1.9	0.0748	0.58	0.57	0.54	
2.5	0.0984	0.78	0.78	0.72	
3.0	0.1181	0.95	0.94	0.87	

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To water NF ISO 719
CHEMICAL DURABILITY (class)
To acid DIN 12-116
To alkalis ISO 695

Chemtempering: This glass has not been designed for chemical tempering

Air tempering:

A specific air tempering schedule must be used for this glass, at lower temperature than for standard crown glasses. More informations are available from Corning SAS Sales Department.

Coating:

Special attention is required to achieve an appropriate surface quality, including the selection of the cleaning products used after surfacing and before coating. The use of strong acidic solutions shall be avoided. It is recommended to check the final product for transmission properties

Surfacing:

Because of its chemical sensitivity, MED-X glass requires special care in smoothing and finishing, as the surface quality might be altered by the subsequent cleaning operations.

Compatible Bariums:

This glass can not be used to manufacture fused multifocal lenses.

There is no compatible bariums to be fused with this glass

Properties according to ISO 14889

ISO 14889 Chapter 4.3.1

Physiological compatibility

The above glass products are not known to be physiologically incompatible, nor known to create a significant number of allergic reactions, when the lenses made out of these materials are used as intended by the manufacturer.

ISO 14889 Chapter 4.3.2

Flammability

The above glass products are not flammable and when tested as described in chapter 5.1 of ISO 14889, there is no continued combustion after withdrawal of the test rod.