

Resistance to Hydrostatic Pressure

Minimum thickness of "Sapphire Window" in millimeter (mm) versus pressure (bar)

Thickness φ	3 bar	5 bar	10 bar	20 bar	100 bar
15mm	0.35	0.55	0.6	0.8	1.2
17.5mm	0.4	0.6	0.7	0.9	2
20mm	0.45	0.7	0.8	1.1	2.4
22.5mm	0.55	0.8	1	1.3	2.8
25mm	0.65	1.1	1.3	1.5	3
27.5mm	0.8	1.2	1.4	1.7	3.4
30mm	0.9	1.3	1.6	2	3.6
32.5mm	1.3	1.6	1.9	2.4	3.9
35mm	1.5	1.8	2	2.5	4.2

1 bar = 1 ATM = hydrostatic pressure of 10 M in water

Remarks:

- The above information is for reference only.
- We are not liable for any errors, consequences or "breakage of sapphire window under hydrostatic pressure due to the usage of this information". Enquirer is requested to use its own judgment to determine the exact thickness of sapphire window.

I-ring

Upper Bevel : 15 - 20c x 45°

Lower Bevel : 10 - 15c x 35°

Glue

Upper Bevel : 15 - 20c x 45°

Lower Bevel : 10 - 15c x 35°