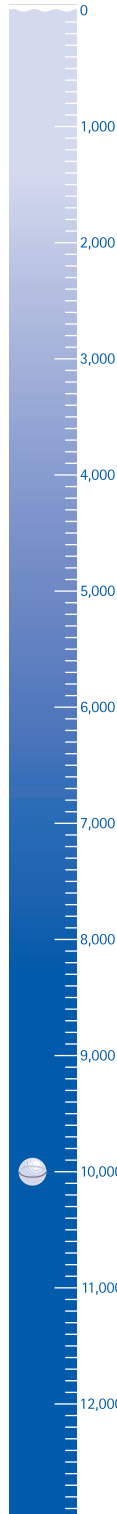




VITROVEX® – 10" glass spheres

For deep ocean explorations to 10,000 meters

depths in meters



Nautilus Marine Service provides **VITROVEX® 10" glass spheres** with a pressure rating of 1,000 bar along with associated services and accessories. These glass spheres are available either as floatation housings to provide buoyancy for deep ocean research applications or as instrumentation housings to accommodate sensitive electronics for observational activities in deep ocean research.

A **VITROVEX® 10" glass spheres** consists of two mated glass hemispheres (P/N NMS-HS-10000-10) that are evacuated and locked into position by a sealant and protective tape. For each instrument sphere a fully assembled vacuum port (P/N 790260, P/N 790262L) within a respective drill hole and flat ground is part of the standard package.



Models and dimensions

part number floatation spheres	part number instrument spheres	depth rating	glass thickness	protective shell design	shell p/n	weight in air	weight in water*
NMS-FS-10000-10	NMS-IS-10000-10VP	10,000 m	10 mm	none	-	4.0 kg	-4.0 kg
NMS-FS-10000-10RO **	NMS-IS-10000-10RO **	10,000 m	10 mm	ribbed	n/a **	4.0 kg	-4.0 kg

* approx. – mainly depending on salinity

** The protective shell for VITROVEX® 10" glass spheres is under development.

Advantages of VITROVEX® 10" glass spheres

- Immense strength to weight ratio
- Resistant to breaking (low thermal expansion coefficient)
- Remarkable transparency and clarity with smooth, pore-free surface
- Inherently inexpensive
- Corrosion resistant, non-polluting and ecologically acceptable
- Non-magnetic and electrically non-conductive
- Parting plane sealing faces are honed to a precise flatness and finish
- Hemispheres are completely interchangeable and can be replaced individually
- No need to rotate the hemispheres to find matching alignment markers during assembly

Protective shell for VITROVEX® 10" glass spheres (under development)

