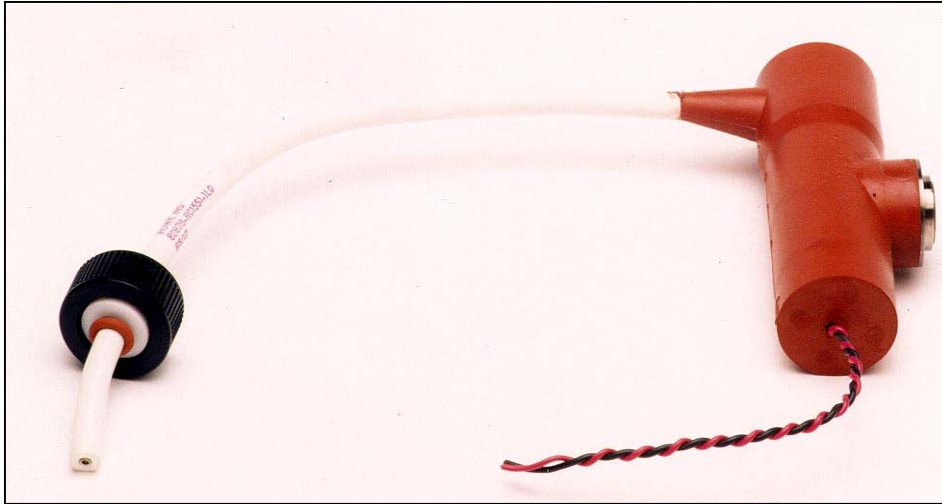


TF Series

Potted X-Ray Tube



Oxford Instrument's series 1000 is a highly popular and proven side window X-ray tube. Currently in use for many industrial applications, the TF1000 series features an electron gun assembly packaged in a silicone formed material. This provides a limited amount of X-ray shielding, and should only be used in a suitable radiation shielded enclosure. The tube is to be operated in a positive anode mode with the filament grounded. The standard exit window is either 0.010 or 0.0050 inch Be.

Specifications

Anode current	0.20 to 1.5 mA
Anode (target) voltage	10Kv to 35Kv
Maximum power	15 watts continuous
Filament voltage	Up to 3.0V@ 30Kv/1.5mA
Filament current	Up to 1.5 amps
Stability	0.2% over 4 hours
Focal spot size (nominal)*	.67 mm * <small>*per IEC336, JISZ47045, NEMA XRS</small>
Mounting flange	Many designs available
Cathode type	W filament
Dimensions	102 mm length by 33 mm diameter
Weight	<1 lb (~ 200 grams)
Cooling method	Forced air

Applications

- On-line elemental analysis
- Thickness gauging
- X-ray fluorescence applications
- Particle size characterization
- Density measurements
- Paper composition

Options

- W, Mo, Rh, Ag, Cu, Ti, Cr, Fe, Co, Ni, Pd, Ta, Re, Pt, Au (& other) anode targets available
- High voltage & filament leads to customer specifications

Warning: This tube produces X-rays through the sides as well as the output port and must only be used in a suitable radiation shielded enclosure or test chamber.

Maximum temperature not to exceed 55 degrees Celsius.

