Protection tubes

18 nominal OD x ID sizes - usually in stock

Issued 24 October 2026. Stock-list snapshot: 29 September 2026; availability is confirmed when quoting.

This stock list records closed-one-end tubes. Specify the required end configuration and order length; lengths are cut to order. Wall = (OD - ID) / 2, calculated from nominal sizes.

OD (mm)	ID (mm)	Wall (mm)	Size page	Quote
6	4	1	View size	Select size
7	5	1	View size	Select size
8	5	1.5	View size	Select size
9	6	1.5	View size	Select size
10	6	2	View size	Select size
10	7	1.5	View size	Select size
12	8	2	View size	Select size
13	8	2.5	View size	Select size
14	10	2	View size	Select size
15	10	2.5	View size	Select size
15	11	2	View size	Select size
16	12	2	View size	Select size
17	12	2.5	View size	Select size
18	13	2.5	View size	Select size
20	15	2.5	View size	Select size
24	18	3	View size	Select size
25	18	3.5	View size	Select size
26	20	3	View size	Select size

Lengths and material

Recorded standard lengths: 300, 450, 600, 1000 mm. The produced family length range is 300-2500 mm; these are not per-size stock-length guarantees.

Standard grade: C799 alumina (99.5% Al2O3). Other available grades are 99% and 95%. In air our tubes are used up to 1,750 °C hanging vertically and 1,650 °C lying horizontally.

Small standard orders: about 3 days; bulk standard orders: about 7 days. Confirm size, length, material and tolerances in the quotation.

Live protection-tube table / European reference sizes

Thermocouple insulators

15 nominal sizes - usually in stock

Issued 24 October 2026. Stock-list snapshot: 29 September 2026; availability is confirmed when quoting.

Single-, twin- and four-bore alumina insulators. Each bore dimension below is the diameter of one bore, not the total open area.

Bores	OD (mm)	Bore (mm)	Size page	Quote
1	2.5	1.5	View size	Select size
1	3	2	View size	Select size
1	10	4	View size	Select size
2	2.5	0.7	View size	Select size
2	3.5	0.9	View size	Select size
2	4.2	1.1	View size	Select size
2	4.5	1.2	View size	Select size
2	5.5	1.4	View size	Select size
2	8.5	1.8	View size	Select size
4	2.5	0.6	View size	Select size
4	3.5	0.8	View size	Select size
4	4.2	1.0	View size	Select size
4	4.5	1.1	View size	Select size
4	5.5	1.3	View size	Select size
4	8.5	1.6	View size	Select size

Specify the wire and the finished bore

Lengths are cut to order. The family range is OD 2-12 mm and length 10-4000 mm; no individual stock length is recorded for these rows.

For fit, compare the minimum finished bore with the maximum wire diameter. Nominal bore minus nominal wire is not an acceptance clearance. Confirm tolerances, insertion length and assembly requirements on the drawing.

Live insulator tables / Wire-diameter candidate finder and fit caveats

Made-to-order insulators

18 additional nominal sizes - separate from stock

These single-, twin- and four-bore sizes are made to order. For usually-stocked options, see page 2.

Bores	OD (mm)	Bore (mm)	Size page	Quote
1	2	1	View size	Select size
1	4	2.5	View size	Select size
1	5	3	View size	Select size
1	6	4	View size	Select size
1	8	5	View size	Select size
1	12	7	View size	Select size
2	2	0.5	View size	Select size
2	3	0.8	View size	Select size
2	4	1	View size	Select size
2	5	1.2	View size	Select size
2	6	1.4	View size	Select size
2	8	1.8	View size	Select size
4	2	0.4	View size	Select size
4	3	0.6	View size	Select size
4	4	1	View size	Select size
4	5	1.2	View size	Select size
4	6	1.3	View size	Select size
4	8	1.6	View size	Select size

Send a drawing or a complete size specification

For insulators: bore count, maximum wire diameter, required finished-bore tolerance, OD, length, Al2O3 grade and quantity. For protection tubes: OD, ID, overall length, open or closed end, required usable depth, grade and quantity.

For non-standard parts, the usual minimum is 100 pieces and typical production time is 25-30 days. Material and operating limits are confirmed per part; nominal dimensions alone do not establish fit or service suitability.

Dimensions and availability are from the public GY Alumina catalog; this is a dated reference, not a contractual inspection sheet. Tolerance evidence and order-specific scope.

Request an insulator quotation / Request a protection-tube quotation