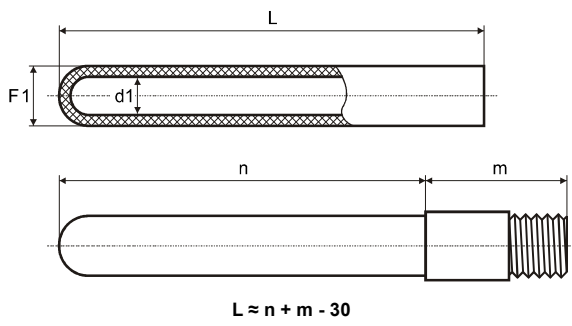
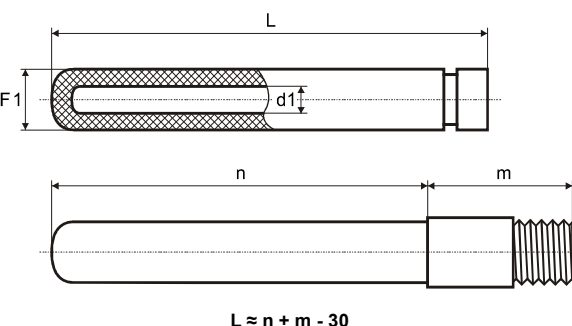
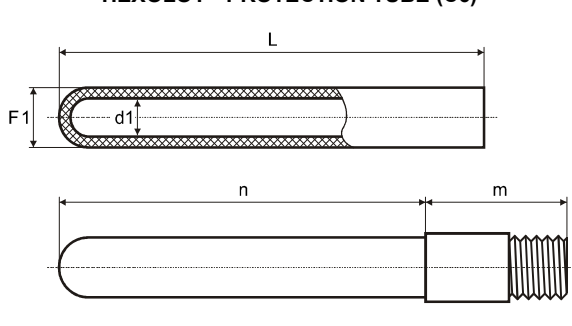
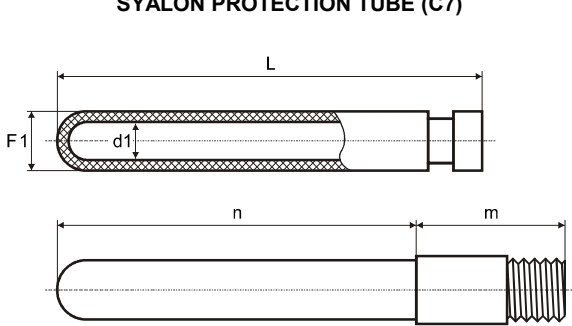


Ceramic Protection Tubes for Molten Metals YACM

CERAMIC PROTECTION TUBE Material - silicon/carbon/alumina ceramics (see Appendix - Sheath materials) Application - T/C protection in molten metals and gaseous media	YACM	MATERIAL	Maximum Temperature	DIMENSIONS *			
				F1 [mm]	d1 [mm]	Fitting Type	L [mm]
UCAR® LT1™ PROTECTION TUBE (C4) 		UCAR® LT1	1650 °C	22	16	2, 3, 6, 11	230, 305, 460, 610, 760, 915, 1220
							Applicable metals: Copper, Brass - up to 1150 °C Steel - up to 1375 °C (peak to 1735 °C) Zink, Lead, Tin, Silver, other metals Non-applicable metals: Aluminum
SILICON CARBIDE PROTECTION TUBE (C5) 		SILICON CARBIDE	1380 °C	20	10	2, 6, 10	200±1000
				Applicable metals: Aluminum, Copper, Brass, Zink, Lead, Tin, other non-ferrous metals Non-applicable metals: ferrous metals	PROPERTIES Chemical Composition: 85% SiC + 15% SiO ₂ Flexural Strength: 250 MPa Thermal Shock Resist: ~500 ΔT°C Thermal Conductivity: 45 W/m.K Thermal Expansion: 5.10 ⁻⁶ K ⁻¹ (0-1200 °C) Porosity: 0.1 % Electrical Resistivity: 10 ⁷ Ω.m (25°C)		
HEXOLOY® PROTECTION TUBE (C6) 		HEXOLOY® SE	1650 °C	9.5	6.5	1, 5, 9	150±1370
				Applicable metals: Aluminum, Copper, Brass, Zink, Lead, Tin, other non-ferrous metals Non-applicable metals: ferrous metals	PROPERTIES Chemical Composition: 98% SiC Flexural Strength: 380 MPa Thermal Shock Resist: 890 MPa @ 450 ΔT°C Thermal Conductivity: 30 W/m.K Thermal Expansion: 4.10 ⁻⁶ K ⁻¹ (0-1200 °C) Porosity: 0.6 % Electrical Resistivity: 10 ⁷ Ω.m (25°C)		
SYALON PROTECTION TUBE (C7) 		Syalon 101	1200 °C	12.5	6.5	1, 5, 9	200±1000 (no groove)
		(Syalon 050)	(1400 °C)	16	9	2, 5, 10	150±2000
		Applicable metals: Aluminum, Brass, Tin, Lead, Bismuth, Cadmium, Magnesium, Cast iron Non-applicable metals: Copper, ferrous metals	PROPERTIES Chemical Composition: 90% Si ₃ N ₄ + 6% Al ₂ O ₃ Flexural Strength: 760 MPa Thermal Shock Resist: 900 ΔT°C Thermal Conductivity: 28 W/m.K Thermal Expansion: 3.10 ⁻⁶ K ⁻¹ (0-1200 °C) Porosity: 0 % Electrical Resistivity: 10 ¹⁰ Ω.m (25°C)				
* Other dimensions are available on request. Please contact COMECO!							

COMECO reserves the right of changing specifications without prior notice!

FITTING	Length 'm' [mm]	Material	TYPE	CONNECTION
	80 or 150 ⁽¹⁾	stainless steel	1	1/2"
			2	3/4"
			3	1"
			4	1 1/4"
	80 or 150 ⁽¹⁾	stainless steel	5	1/2"
			6	3/4"
			7	1"
			8	1 1/4"
	80 or 150 ⁽¹⁾	stainless steel	9	1/2" x 1/2"
			10	3/4" x 1/2"
			11	1" x 3/4"
			12	1 1/4" x 3/4"

⁽¹⁾ For tube length L ≥ 1000 mm

Ordering code YACM - G10.G5.G6.G9'G9"

Code	Feature or option	Code values
G10	Sheath material ⁽²⁾	C4 - UCAR® LT1™, C5 - silicon carbide, C6 - Hexoloy®, C7 - Syalon, C8 - Silicon nitride
G5	Outer diameter 'OD' [mm]	from tables overleaf
G6	Length 'L' [mm]	from tables overleaf
G9'	Fitting type	X - none, 1 - type 1, 2 - type 2, 3 - type 3, 4 - type 4, 5 - type 5, 6 - type 6, 7 - type 7, 8 - type 8, 9 - type 9, 10 - type 10, 11 - type 11, 12 - type 12, Z - other (specify!)
G9"	Fitting thread	G - parallel pipe threads, N - NPT threads, X - none *, Z - other (specify!)

⁽²⁾ Always ask for availability!

* contact COMECO!