GSI - GPY - GTE

HI TECH CERAMIC SHEATHS & TUBES



Our ceramic protective sheaths and tubes are high-tech products made with top-quality materials and extremely advanced production techniques, all to achieve excellent results in any condition.

To ensure the highest quality and consistency of the product, each piece is individually made with special equipment at extremely high pressures.

This production process generates high-density products by minimizing or even eliminating even the slightest anomaly, especially in the sintered versions. Above all, each product is created in a single piece without bottoms or subsequently added parts, which weaken the structure and tend to detach easily in the event of thermal shock.

All products are designed and manufactured in different ceramic qualities, in compliance with DIN-VDE 0335/IEC 672 standards and are suitable for applications where high levels of chemical protection are required even at high temperatures.

Thanks to these characteristics, these products are particularly suitable for the protection of thermometer sensors used in high and very high temperature production processes such as in the glass or ceramics sectors, with absolutely excellent results in terms of durability.

Dimensional Tolerances

Diam. (mm)		Dimension Tollerance
From	Up To	
0	4.0	± 0.15
4.1	6.0	± 0.20
6.1	8.0	± 0.25
8.1	10.0	± 0.30
10.1	13.0	± 0.35
13.1	16.0	± 0.30
16.1	20.0	± 0.45
20.1	25.0	± 0.50
25.1	30.0	± 0.55
30.1	35.0	± 1.30
35.1	40.0	± 1.33
40.1	45.0	± 1.35
45.1	50.0	± 1.65
50.1	55.0	± 1.70
55.1	60.0	± 1.75
60.1	70.0	± 2.10
70.1	80.0	± 2.45
80.1	90.0	± 2.80
90.1	100.0	± 3.15
100.1	125.0	± 4.00
125.1	140.0	± 4.25
140.1	185.0	± 5.45
185.1	250.0	± 6.60
250.1	300.0	± 7.30

In Conformità DIN 40680

TECHNICAL FEATURES

DESCRIPTIONS	UM	NORMS	MATERIALS		
CEAM Name			GSI	GPY	GTE
Name DIN 335/IEC 672			KER 530	KER 610	KER799
Tollerances			@ DIN 40680 (Up mentioned)		
Color			WHITE	WHITE	WHITE
Specific Weight	Kg/Dm^3	ASTM C20	2.3	2.8	3.85
Water Absorption	%	ASTM C373	10	0	0
ROCKWELL Hardness	R45N	ASTM E18	0	0	80
Bending Stiffness	N/mm^3	ASTM F417	120	200	360
Max Temperature	°C		1600	1600	1800
Thermal Conductivity	W/M. °K	ASTM C408	1.5	4.0	28.00
Coefficet of Thermal Expansion				4.0	28.00
Range 20 ÷ 100 °C			1.5	4.0	28.00
Range 101 ÷ 300 °C	X 10^6/ °C	ASTM C372	1.5	4.0	28.00
Range 301 ÷ 600 °C			1.5	4.0	28.00
Range 601 ÷ 1000 °C			1.5	4.0	28.00
Dielectric Constant		ASTM D150			10
Dielectric Resistance	Kv/ mm	ASTM D116			>10
Dissipation Factor	X 10^3	ASTM D150			0.2
Resistance Capacity					28.00
200 °C	Ohm X cm	ASTM D257		10^9	10^{15}
400 °C				10^6	10^{13}
600 °C				10^5	10^{11}
Temperature Stability			Good	Good/Satisfying	Good/Satisfyin
Chemical Resistance			Satisfying	Good	Very Good
TE Values	°C				1000

Note: Average data obtained from laboratory tests performed on a representative sample

GSI - Ker 530 Closed Sheaated @ DIN VDE 0335 - IEC 672 - Measures Espressed in mm

Art.	D.Est.	D.Int.	Length	Art.	D.Est.	D.Int.	Lenght	Art.	D.Est.	D.Int.	Length
2620	9	6	500	2552	16	12	500	2043	26	18	750
2619	9	6	1000	2040	16	12	750	2346	26	18	1150
2452	10	7	300	2042	16	12	1150	2355	60	50	500
2551	10	7	500	2041	17	13	1000				
2453	10	7	1000	2044	26	18	500				



GPY - Ker 610 Closed Sheathed @ DIN VDE 0335 - IEC - Measures Exressed in mm

Art.	D.Est.	D.Int.	Length	Art.	D.Est.	D.Int.	Lenght	Art.	D.Est.	D.Int.	Lenght	Art.	D.Est.	D.Int.	Lenght
2045	9	6	500	2038	17	13	500	2664	55	36	580 **				
2618	9	6	1000	2036	17	13	600	2A285	55	46	700 **				
2A148	10	7	500	2031	17	13	750	2A367	60	50	500 **				
2A149	10	7	600	2032	17	13	1000								
2027	10	7	700	2033	17	13	1200								
2028	10	7	1000	2034	20	15	500								
2A329	14	10	600	2011	20	15	520								
2A088	15	11	300	2035	20	15	1100								
2030	15	11	500	2956	20	15	1400								
2A253	15	11	600	2A372	23	17	650								
2029	15	11	650	2005	23	17	1200								
2A254	15	11	700	2A315	24	19	1200								
2917	15	11	800	2451	26	18	500								
2A103	15	11	1000	2039	26	18	750								
2037	17	13	350	2A013	26	18	1000								

GTE - Ker 799 Closed Sheathed @ DIN VDE 0335 - IEC - Measures Expressed in mm

Art.	D.Est.	D.Int.	Length	Art.	D.Est.	D.Int.	Length	Art.	D.Est.	D.Int.	Length	Art.	D.Est.	D.Int.	Length
2A180	6	4	200	2002	15	10	1000	2903	24	18	2500				
2A178	6	4	600	2018	15	10	1200	2A287	28	22	550**				
2343	6	4	900	2377	15	10	1700	2284	35	27	1000				
2A117	8	5	1000	2904	15	11	2020	2023	48	40	306				
2008	9	6	300	2905	15	11	2500	2022	48	40	459				
2009	9	6	500	2A396	16	12	300	2024	48	40	612				
2908	9	6	600	2A397	16	12	500	2024	48	40	612				
2010	9	6	700	2A398	16	12	700								
2268	9	6	1000	2A399	16	12	1000								
2A392	10	6	300	2A116	17	13	900								
2A393	10	6	500	2155	17	13	1200								
2A394	10	6	700	2003	20	15	520								
2A395	10	6	1000	2404	20	15	1000								
2A179	10	7	200	2006	24	18	500								
2A177	12	8	650	2007	24	18	600								
2342	12	8	900	2025	24	18	750								
2450	15	10	300	2026	24	18	1000								
2016	15	10	500	2927	24	18	1300								
2017	15	10	600	2162	24	18	1700								
2001	15	10	750	2902	24	18	2020								

** Note: Open Tubes

Attention: The products listed in this document are only a part of the products actually available which are constantly evolving, so for more details refer to the specific page of the sensorstore.it catalogue or contact customer service directly.

Additional Services - The following special processes can be performed upon request

- Custom Cutting and Drilling on Request
- Special Processes Based on Design
- Gluing with Accessories
- Supply of special products and dimensions
- Product Customization Services (Private Label Program)



HOW TO ORDER

All information and documents on these products, related products, alternatives, and available accessories, can be read and downloaded from the online catalog sensorstore.it, which can also be accessed directly via the QRceam system shown on the side using a standard smartphone or tablet.

GTE-KER530 GTE-KER610 GTE-KER799

SCOPRI

© CEAM Control equipment

COMPANY WITH QUALITY SYSTEM CERTIFIED ISO 9001:2015

Via Val D'Orme No. 291 - 50053 Empoli (FI) Italy Tel.(+39) 0571 924181 - Fax. (+39) 0571 924505 - Skype Name: ceam_info
Internet Web Portal: www.ceamgroup.com - E.mail: info@ceamgroup.it - Division Web: www.ceamcontrolequipment.it - Support Web: www.ceamsupport.it