

LABORATORY MATERIAL

QUARTZ
GLASSWARE

helios quartz







Helios è attiva dal 1940 nella realizzazione e trasformazione dei seguenti articoli in vetro di quarzo trasparente, traslucido ed opaco:

- tubi
- guaine
- tondi
- dischi
- lastre
- lingotti
- articoli a disegno
- vetreria di quarzo

Helios has been active since 1940 in the construction and transformation of the following articles in transparent, translucent and opaque quartz glass:

- tubes
- domed tubes
- rods
- disks
- plates
- bars
- customized items on customer drawings
- lab items



helios quartz

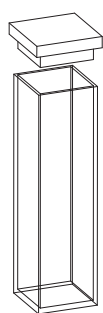


CUVETTE CELLS



CUVETTE PER SPETTROFOTOMETRIA CELLS FOR SPECTROPHOTOMETRY

mod. C.451

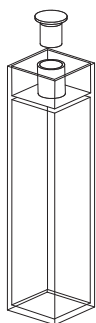


C.451

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
1	0,4	26V00001	26D00201
2	0,7	26V00002	26D00202
5	1,7	26V00003	26D00203
10	3,5	26V00004	26D00204
20	7,0	26V00005	26D00205
40	14	26V00007	26D00207
50	17,5	26V00008	26D00208

Con coperchio in teflon, altezza totale 45 mm. / With teflon cap, total height 45 mm.





C.452

Con tappo in teflon a tenuta, altezza 46 mm

With teflon cap and 46 mm height

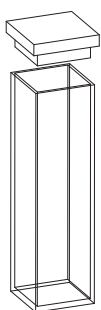
mod. C.452

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
1	0,4	26V00011	26D00211
2	0,7	26V00012	26D00212
5	1,7	26V00013	26D00213
10	3,5	26V00014	26D00214
20	7,0	26V00015	26D00215
40	14	26V00017	26D00217
50	17	26V00018	26D00218

2 Pareti trasparenti lucidate otticamente e 2 smerigliate, largh. esterna 12,5 mm, interna 10 mm.

2 optically transparent polished sides and 2 ground sides, 12,5 mm external width, 10 mm internal.

N.B. A richiesta, cuvette con passo ottico di 100 mm. / N.B. On request, cells with 100 mm optic pitch.



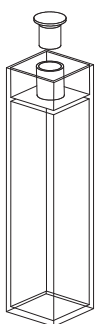
C.463

CUVETTE PER FLUOROMETRIA

CELLS FOR FLUORIMETRY

mod. C.463

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
5	1,7	26V00023	26V00223
10	3,5	26V00024	26V00224
20	7	26V00025	26V00225



C.464

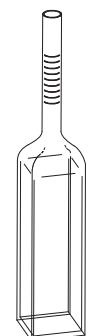
Con tappo in teflon / With teflon cap

mod. C.464

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
5	1,7	26V00033	26V00233
10	3,5	26V00034	26V00234
20	7	26V00035	26V00235

Con coperchio, 4 pareti e fondo lavorato otticamente, h 45 mm, largh. est. 12,5 mm, int. 10 mm.

With cap, 4 sides and bottom optically worked, 45 mm height, 12,5 mm external width and 10 mm int.



C.465

mod. C.465

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	3,5	-	26D00236

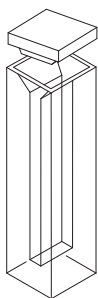
Con tubetto di raccordo in quarzo pyrex Ø 8 mm, lungh. 85 mm, h. cuvette 45 mm, largh. 12,5 mm.

With pyrex quartz neck 8 mm Ø, 85 mm length, 45 mm rectangular cells height, 12,5 mm width.



helios quartz



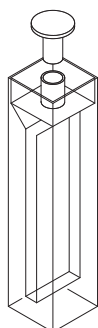


C.475

CUVETTE SEMIMICRO SEMIMICRO RECTANGULAR CELLS

mod. C.475

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	1,4	26V00054	26D00254



C.476

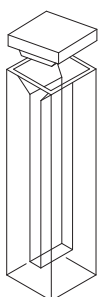
Con tappo in teflon / With teflon cap

mod. C.476

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	1,4	26V00064	26D00264

Con coperchio, le pareti con maggior spessore sono tagliate ad imbuto: 4 sono lavorate otticamente di cui 2 trasparenti e 2 smerigliate, h 45 mm, largh. esterna 12,5 mm, largh. interna 4 mm.

With cap, thicker sides are cut like a funnel: 4 sides are optically worked, 2 transparent and 2 ground, 45 mm height, 12,5 mm external width, 4 mm internal width.

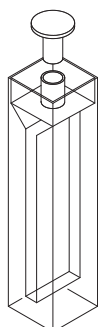


C.487

CUVETTE MICRO MICRO RECTANGULAR CELLS

mod. C.487

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	0,7	26V00074	26D00274



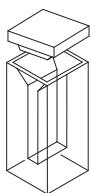
C.488

Con tappo in teflon / With teflon cap

mod. C.488

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	0,7	26V00084	26D00284





C.490

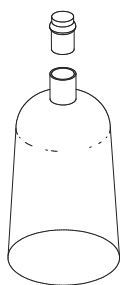
mod. C.490

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
10	0,4	26V00094	26D00294

Con coperchio, le pareti con maggior spessore sono in alto, tagliate ad imbuto, 4 pareti lavorate otticamente di cui 2 trasparenti e 2 smerigliate, h 45 mm, largh. esterna 12,5 mm, interna 2 mm.
With cap, thicker sides are on top and cut like a funnel, 4 sides optically worked, 2 transparent and 2 ground, 45 mm height, 12,5 mm external width, 2 mm internal width.

CUVETTE CILINDRICHE CYLINDRICAL CELLS

mod. C.500



C.500

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
20	5,6	26V00105	26D00305

N.B. A richiesta passo ottico 10 e 30 mm. / N.B. With 10 or 30 mm optic pitch on request.

Altezza 25 mm / 2 tight teflon caps

mod. C.500

Passo ottico in mm	Capacità cc	Codice	
		Vetro ottico spec.	Quarzo UV spec.
50	14,1	26V00108	26D00308

Con Ø esterno 22 mm, tappi e tenuta Ø 7,5 mm in teflon, 2 finestre lavorate otticamente, h 28 mm.
With 22 mm external Ø, tight teflon caps with 7,5 mm Ø, 2 ends optically worked, 28 mm height.
N.B. A richiesta passo ottico 40 e 100 mm. / N.B. With 40 or 100 mm optic pitch on request.

Trasmissione luce:

in vetro ottico 85% a 320 nm; cuvette in quarzo UV 91% a 240 nm. Sono disponibili cuvette anche con quarzo IR e quarzo UV + IR. A richiesta si possono fornire anche cuvette speciali su disegno, sia in vetro che in quarzo.

Le cuvette sono fornite in confezioni da 2 pezzi.

Light transmission:

cells in 85% optic glass at 320 nm; 91% UV quartz cells at 240 nm. We can supply cells in IR quartz or UV + IR quartz. You may order made to measure cells in glass or quartz.

Cells come in boxes of 2.



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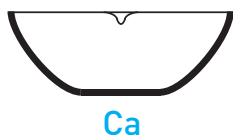




CAPSULE DISHES



CAPSULE EMISFERICHE con becco HEMISPERIC DISHES with spout



Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 38 h 14 cc 5	61P00001	33 Ca 21	61F00101	50 Ca 21
Ø 54 h 23 cc 20	61P00003	33 Ca 24	61F00103	50 Ca 24
Ø 74 h 28 cc 45	61P00004	33 Ca 29	61F00104	50 Ca 29
Ø 86 h 33 cc 70	61P00005	33 Ca 30	61F00105	50 Ca 30
Ø 93 h 36 cc 90	61P00006	33 Ca 32	-	-
Ø 98 h 37 cc 110	61P00007	33 Ca 33	61F00107	50 Ca 33
Ø 112 h 47 cc 240	61P00008	33 Ca 34	61F00108	50 Ca 34



CAPSULE A FONDO PIANO con becco FLAT BOTTOM DISHES with spout



Cb

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 68 h 15 cc 20	61P00021	33 Cb 1	61F00121	50 Cb 1
Ø 77 h 15 cc 30	61P00022	33 Cb 2	61F00122	50 Cb 2
Ø 92 h 24 cc 60	61P00023	33 Cb 3	-	-
Ø 100 h 20 cc 90	61P00024	33 Cb 4	61F00124	50 Cb 4
Ø 130 h 23 cc 160	61P00025	33 Cb 5	61F00125	50 Cb 5

CAPSULE A FONDO PIANO FLAT BOTTOM DISHES

Alte, cilindriche, senza becco / Deep, cylindrical, without spout



Cc

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 56 h 28 cc 45	61P00041	33 Cc 1	61F00141	50 Cc 1
Ø 61 h 28 cc 55	61P00042	33 Cc 2	61F00142	50 Cc 2
Ø 75 h 27 cc 85	61P00043	33 Cc 3	61F00144	50 Cc 3
Ø 87 h 28 cc 100	61P00044	33 Cc 4	61F00144	50 Cc 4

CAPSULE A FONDO PIANO FLAT BOTTOM DISHES

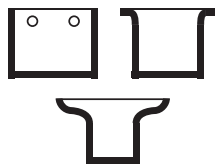
Basse, cilindriche, senza becco / Shallow, cylindrical, without spout



Cc

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 47 h 15 cc 20	61P00046	33 Cc 7	61F00146	50 Cc 7
Ø 54 h 15 cc 25	61P00047	33 Cc 8	61F00147	50 Cc 8
Ø 68 h 15 cc 35	61P00048	33 Cc 9	61F00148	50 Cc 9
Ø 77 h 18 cc 55	61P00049	33 Cc 10	61F00149	50 Cc 4

CAPSULE PER CALORIMETRO BOMBA MAHLER DISHES FOR MAHLER BOMB CALORIMETER



Cbm

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 25 h 16 c/2 fori Ø 1	61P00061	33 Cbm 16	61F00161	50 Cbm 16
Ø 20 h 20 c/bordi 25	61P00063	33 Cbm 20	61F00163	50 Cbm 20
Ø 17 h 20 svasato 37	61P00065	33 Cbm 37	61F00165	50 Cbm 37



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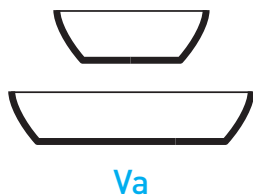
VASCHE o CAPSULE RETTANGOLARI

RECTANGULAR BASINS and DISHES



VASCHE o CAPSULE RETTANGOLARI

RECTANGULAR BASINS and DISHES



Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
L 60/28 h 12 mm	62P00203	33 Va 8	62F00303	50 Va 8
L 53/43 h 18 mm	62P00204	33 Va 9	62F00304	50 Va 9
L 68/39 h 12 mm	62P00205	33 Va 10	62F00305	50 Va 10
L115/60 h 12 mm	62P00206	33 Va 11	-	-





NAVICELLE BOATS



NAVICELLE CON PRESA AD ANELLO BOATS WITH RING HANDLE



Na

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
L 48/14 h 8 mm	62P00003	33 Na 1	62F00103	50 Na 1
L 76/16 h 10 mm	62P00004	33 Ca 2	62F00104	50 Na 2
L 76/19 h 11 mm	62P00005	33 Na 3	62F00105	50 Na 3
L 102/18 h 11 mm	62P00006	33 Na 4	62F00106	50 Na 4
L 120/20 h 15 mm	62P00007	33 Na 5	62F00107	50 Na 5
L 180/20 h 15 mm	62P00008	33 Na 6	62F00108	50 Na 6
L 143/33 h 17 mm	62P00009	33 Na 7	62F00109	50 Na 7



helios quartz

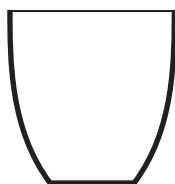


CROGIOLI CRUCIBLES



CROGIOLI FORMA ALTA E BASSA DEEP AND SHALLOW CRUCIBLES


Cr forma bassa e alta
deep and shallow



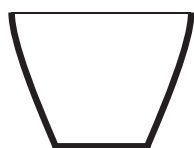
Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 29 h 19 cc 5	63P00002	33 Cr 2	63F00502	50 Cr 2
Ø 38 h 19 cc 10	63P00003	33 Cr 3	63F00503	50 Cr 3
Ø 32 h 32 cc 12	63P00004	33 Cr 4	63F00504	50 Cr 4
Ø 41 h 25 cc 15	63P00005	33 Cr 5	63F00505	50 Cr 5
Ø 35 h 38 cc 20	63P00006	33 Cr 6	63F00506	50 Cr 6
Ø 38 h 38 cc 20	63P00007	33 Cr 7	63F00507	50 Cr 7
Ø 47 h 28 cc 25	63P00008	33 Cr 8	63F00508	50 Cr 8
Ø 43 h 38 cc 30	63P00010	33 Cr 10	63F00510	50 Cr 10
Ø 57 h 37 cc 50	63P00012	33 Cr 12	63F00512	50 Cr 12
Ø 50 h 50 cc 50	63P00013	33 Cr 13	63F00513	50 Cr 13
Ø 67 h 45 cc 75	63P00014	33 Cr 14	63F00514	50 Cr 14



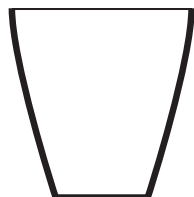
CROGIOLI NORME DIN 12334 solo in trasparente
1234 DIN STANDARD CRUCIBLES transparent only



Cr 41



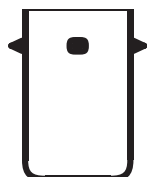
Cr 51



Cr 61

Dimensione	Trasparente	
	Codice	Modello
Ø 30 h 19 cc 6	63P00501	33 Cr 41
Ø 35 h 22 cc 11	63P00502	33 Cr 42
Ø 40 h 25 cc 15	63P00503	33 Cr 43
Ø 45 h 28 cc 25	63P00504	33 Cr 44
Ø 50 h 32 cc 29	63P00505	33 Cr 45
Ø 60 h 38 cc 50	63P00506	33 Cr 46
Ø 70 h 44 cc 85	63P00507	33 Cr 47
Ø 35 h 28 cc 15	63P00511	33 Cr 51
Ø 40 h 32 cc 20	63P00512	33 Cr 52
Ø 45 h 36 cc 38	63P00513	33 Cr 53
Ø 50 h 40 cc 49	63P00514	33 Cr 54
Ø 60 h 48 cc 90	63P00515	33 Cr 55
Ø 70 h 56 cc 150	63P00516	33 Cr 56
Ø 30 h 38 cc 15	63P00521	33 Cr 61
Ø 35 h 44 cc 24	63P00522	33 Cr 62
Ø 40 h 50 cc 40	63P00523	33 Cr 63
Ø 45 h 56 cc 50	63P00524	33 Cr 64
Ø 50 h 62 cc 75	63P00525	33 Cr 65
Ø 60 h 75 cc 120	63P00526	33 Cr 66

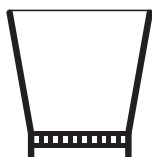
CROGIOLI NORME DIN 12334 solo in trasparente
1234 DIN STANDARD CRUCIBLES transparent only



Cr 27
con riscontri

Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
Ø 25 h 38 cc 10	63P00105	33 Cr 27	63F00605	50 Cr 27

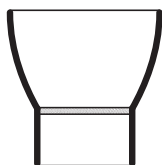




Cd

CROGIOLI DI GOOCH GOOCH CRUCIBLES

Dimensione	Trasparente	
	Codice	Modello
Ø 30 h 22 cc 30	63P00201	33 Cd 1
Ø 34 h 23 cc 34	63P00202	33 Cd 2
Ø 38 h 24 cc 38	63P00203	33 Cd 3
Ø 40 h 25 cc 40	63P00204	33 Cd 4
Ø 42 h 26 cc 42	63P00205	33 Cd 5
Ø 45 h 27 cc 45	63P00206	33 Cd 6



Crf

CROGIOLI FILTRANTI FILTERING CRUCIBLES

Dimensione	Trasparente		Porosità
	Codice	Modello	
Ø 18 h 25 cc 15	63P00301	33 Crf 1	0
Ø 18 h 25 cc 15	63P00302	33 Crf 1	1
Ø 18 h 25 cc 15	63P00303	33 Crf 1	2
Ø 18 h 25 cc 15	63P00304	33 Crf 1	3
Ø 18 h 25 cc 15	63P00305	33 Crf 1	4
Ø 30 h 35 cc 30	63P00306	33 Crf 2	0
Ø 30 h 35 cc 30	63P00307	33 Crf 2	1
Ø 30 h 35 cc 30	63P00308	33 Crf 2	2
Ø 30 h 35 cc 30	63P00309	33 Crf 2	3
Ø 30 h 35 cc 30	63P00310	33 Crf 2	4
Ø 30 h 100 cc 60	63P00311	33 Crf 3	0
Ø 30 h 100 cc 60	63P00312	33 Crf 3	1
Ø 30 h 100 cc 60	63P00313	33 Crf 3	2
Ø 30 h 100 cc 60	63P00314	33 Crf 3	3
Ø 30 h 100 cc 60	63P00315	33 Crf 3	4
Ø 39 h 38 cc 30	63P00316	33 Crf 4	0
Ø 39 h 38 cc 30	63P00317	33 Crf 4	1
Ø 39 h 38 cc 30	63P00318	33 Crf 4	2
Ø 39 h 38 cc 30	63P00319	33 Crf 4	3
Ø 39 h 38 cc 30	63P00320	33 Crf 4	4
Ø 45 h 41 cc 30	63P00321	33 Crf 5	0
Ø 45 h 41 cc 30	63P00322	33 Crf 5	1
Ø 45 h 41 cc 30	63P00323	33 Crf 5	2
Ø 45 h 41 cc 30	63P00324	33 Crf 5	3
Ø 45 h 41 cc 30	63P00325	33 Crf 5	4





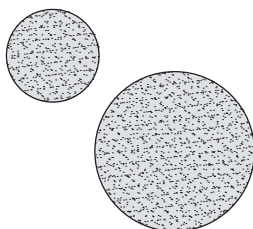
DISCHI POROSI

POROSITY DISKS



DISCHI POROSI (disponibili con porosità 0-1-2-3-4)

POROSITY DISKS (available with 0-1-2-3-4 porosity)



Dimensione	Trasparente		Traslucido	
	Codice	Modello	Codice	Modello
L 48/14 h 8 mm	62P00003	33 Na 1	62F00103	50 Na 1
L 76/16 h 10 mm	62P00004	33 Ca 2	62F00104	50 Na 2
L 76/19 h 11 mm	62P00005	33 Na 3	62F00105	50 Na 3
L 102/18 h 11 mm	62P00006	33 Na 4	62F00106	50 Na 4
L 120/20 h 15 mm	62P00007	33 Na 5	62F00107	50 Na 5
L 180/20 h 15 mm	62P00008	33 Na 6	62F00108	50 Na 6
L 143/33 h 17 mm	62P00009	33 Na 7	62F00109	50 Na 7

N.B. Porosità / Porosity: 0 Ø medio fori 150 ÷ 250 micron / 0 average Ø of hole 150 ÷ 250 microns
1 Ø medio fori 90 ÷ 150 micron / 1 average Ø of hole 90 ÷ 150 microns
2 Ø medio fori 40 ÷ 90 micron / 2 average Ø of hole 40 ÷ 90 microns
3 Ø medio fori 15 ÷ 40 micron / 3 average Ø of hole 15 ÷ 40 microns
4 Ø medio fori 5 ÷ 15 micron / 4 average Ø of hole 5 ÷ 15 microns



helios quartz





COPERCHI COVERS



COPERCHI CON PRESA A LINGUETTA COVERS WITH LONG HANDLE

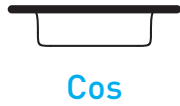


Col

Trasparente		Translucido		Tipo crogiolo
Codice	Modello	Codice	Modello	
64P00101	TV Col 29	64F00602	FV Col 29	Cr 2
64P00102	TV Col 32	64F00603	FV Col 35	Cr 6-7
64P00103	TV Col 35	64F00604	FV Col 43	Cr 10
64P00104	TV Col 43	64F00605	FV Col 51	Cr 13
64P00105	TV Col 51	64F00606	FV Col 76	Cr 16
64P00106	TV Col 76	64F00607	FV Col 67	Cr 14
		64F00609	FV Col 41	Cr 5
		64F00610	FV Col 47	Cr 8
		64F00611	FV Col 32	Cr 4
		64F00612	FV Col 57	Cr 12

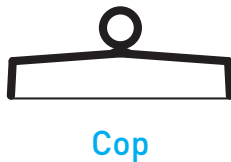


COPERCHI SPECIALI SPECIAL COVERS



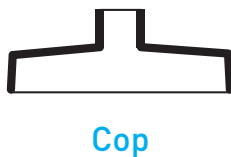
Trasparente		Translucido		Tipo crogiolo
Codice	Modello	Codice	Modello	
64P00901	TV Cos 1	64F00951	FV Cos 1	Americano Cr 31
64P00902	TV Cos 2	64F00952	FV Cos2	Norme ISO/TC Cr 31
64P00903	TV Cos 3	64F00953	FV Cos3	Norme ISO/TC Cr 27

COPERCHI CON PRESA AD ANELLO COVERS WITH RING HANDLE



Trasparente		Translucido		Tipo crogiolo
Codice	Modello	Codice	Modello	
64P00002	TV Cop 29	64F00502	FV Cop 29	Cr 2
64P00003	TV Cop 41	64F00503	FV Cop 41	Cr 3-5
64P00004	TV Cop 35	64F00504	FV Cop 35	Cr 6-7
64P00005	TV Cop 47	64F00505	FV Cop 47	Cr 8
64P00006	TV Cop 57	64F00506	FV Cop 57	Cr 12
64P00007	TV Cop 67	64F00507	FV Cop 67	Cr 14
64P00008	TV Cop 82	64F00508	FV Cop 82	Cr 15
64P00009	TV Cop 51	64F00509	FV Cop 51	Cr 13
64P00010	TV Cop 43	64F00510	FV Cop 43	Cr 10
64P00011	TV Cop 32	64F00511	FV Cop 32	Cr 4
64P00012	TV Cop 75	64F00512	FV Cop 75	Cr 16

COPERCHI CON PRESA AD ANELLO NORME din 12334 12334 DIN STANDARD COVERS WITH RING HANDLE



Trasparente		Tipo crogiolo
Codice	Modello	
64P00601	TV Cop 34	Cr 41-61
64P00602	TV Cop 39	Cr 42-51-62
64P00603	TV Cop 44	Cr 43-52-63
64P00604	TV Cop 49	Cr 44-53-64
64P00605	TV Cop 54	Cr 45-54-65
64P00606	TV Cop 64	Cr 46-55-66
64P00607	TV Cop 74	Cr 47-56

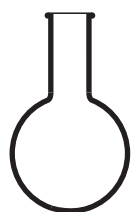




PALLONI e MATRACCI FLASKS



PALLONI FONDO ROTONDO NORME DIN 12353 a collo stretto 12353 DIN STANDARD ROUND BOTTOM FLASKS with narrow neck



Pr 2

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 105 cc 50	23P00002	33 Pr 2	22	
Ø 64 h 115 cc 100	23P00003	33 Pr 3	22	
Ø 85 h 145 cc 250	23P00004	33 Pr 4	34	
Ø 105 h 175 cc 500	23P00005	33 Pr 5	34	
Ø 131 h 210 cc 1000	23P00007	33 Pr 7	42	
Ø 165 h 260 cc 2000	23P00008	33 Pr 8	50	



PALLONI FONDO ROTONDO NORME DIN 12353 a collo largo
12353 DIN STANDARD ROUND BOTTOM FLASKS with wide neck



Pr 12

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 105 cc 50	23P00102	33 Pr 12	34	
Ø 64 h 115 cc 100	23P00103	33 Pr 13	34	
Ø 85 h 145 cc 250	23P00104	33 Pr 14	50	
Ø 105 h 175 cc 500	23P00105	33 Pr 15	50	
Ø 131 h 210 cc 1000	23P00107	33 Pr 17	65	
Ø 165 h 260 cc 2000	23P00108	33 Pr 18	76	

PALLONI FONDO ROTONDO NORME DIN 12353 con cono
12353 DIN STANDARD ROUND BOTTOM FLASKS with cone



Pr 32

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 105 cc 50	23P00052	33 Pr 32		NS. 19
Ø 64 h 115 cc 100	23P00053	33 Pr 33		NS. 19
Ø 85 h 145 cc 250	23P00054	33 Pr 34		NS. 29
Ø 105 h 175 cc 500	23P00055	33 Pr 35		NS. 29
Ø 131 h 210 cc 1000	23P00057	33 Pr 37		NS. 29
Ø 165 h 260 cc 2000	23P00058	33 Pr 38		NS. 29
Ø 51 h 105 cc 50	23P00152	33 Pr 42		NS. 29
Ø 64 h 115 cc 100	23P00153	33 Pr 43		NS. 29
Ø 85 h 145 cc 250	23P00154	33 Pr 44		NS. 45
Ø 105 h 175 cc 500	23P00155	33 Pr 45		NS. 45
Ø 131 h 210 cc 1000	23P00157	33 Pr 47		NS. 45
Ø 165 h 260 cc 2000	23P00158	33 Pr 48		NS. 45

PALLONI FONDO PIATTO NORME DIN 12353 a collo stretto
12353 DIN STANDARD FLAT BOTTOM FLASKS with narrow neck



Pp 2

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 100 cc 50	23P00202	33 Pp 2	22	
Ø 64 h 110 cc 100	23P00203	33 Pp 3	22	
Ø 85 h 140 cc 250	23P00204	33 Pp 4	34	
Ø 105 h 170 cc 500	23P00205	33 Pp 5	34	
Ø 131 h 200 cc 1000	23P00207	33 Pp 7	42	
Ø 165 h 250 cc 2000	23P00208	33 Pp 8	50	



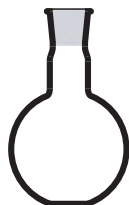
PALLONI FONDO PIATTO NORME DIN 12353 a collo largo
12353 DIN STANDARD FLAT BOTTOM FLASKS with wide neck



Pp 12

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 100 cc 50	23P00302	33 Pp 12	34	
Ø 64 h 110 cc 100	23P00303	33 Pp 13	34	
Ø 85 h 140 cc 250	23P00304	33 Pp 14	50	
Ø 105 h 170 cc 500	23P00305	33 Pp 15	50	
Ø 131 h 200 cc 1000	23P00307	33 Pp 17	65	
Ø 165 h 250 cc 2000	23P00308	33 Pp 18	76	

PALLONI FONDO PIATTO NORME DIN 12353 con cono
12353 DIN STANDARD FLAT BOTTOM FLASKS with cone



Pp 32

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 100 cc 50	23P00252	33 Pp 32		NS. 19
Ø 64 h 110 cc 100	23P00253	33 Pp 33		NS. 19
Ø 85 h 140 cc 250	23P00254	33 Pp 34		NS. 29
Ø 105 h 170 cc 500	23P00255	33 Pp 35		NS. 29
Ø 131 h 200 cc 1000	23P00257	33 Pp 37		NS. 29
Ø 165 h 250 cc 2000	23P00258	33 Pp 38		NS. 29
Ø 51 h 100 cc 50	23P00352	33 Pp 42		NS. 29
Ø 64 h 110 cc 100	23P00353	33 Pp 43		NS. 29
Ø 85 h 140 cc 250	23P00354	33 Pp 44		NS. 45
Ø 105 h 170 cc 500	23P00355	33 Pp 45		NS. 45
Ø 131 h 200 cc 1000	23P00357	33 Pp 47		NS. 45
Ø 165 h 250 cc 2000	23P00358	33 Pp 48		NS. 45

MATRACCI BEUTE ERLLENMEYER NORME DIN 12353 a collo stretto
12353 DIN STANDARD ERLLENMEYER FLASKS with narrow neck



M 1

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 42 h 70 cc 25	22P00001	33 M 1	20	
Ø 54 h 80 cc 50	22P00002	33 M 2	20	
Ø 65 h 105 cc 100	22P00003	33 M 3	20	
Ø 85 h 140 cc 250	22P00004	33 M 4	25	
Ø 105 h 175 cc 500	22P00005	33 M 5	30	
Ø 134 h 210 cc 1000	22P00007	33 M 7	40	



MATRACCI O BEUTE ERLENMEYER NORME DIN 12353 a collo largo
12353 DIN STANDARD ERLENMEYER FLASKS with wide neck



M 12

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 51 h 80 cc 50	22P00102	33 M 12	30	
Ø 64 h 105 cc 100	22P00103	33 M 13	30	
Ø 85 h 140 cc 250	22P00104	33 M 14	40	
Ø 105 h 175 cc 500	22P00105	33 M 15	40	
Ø 130 h 210 cc 1000	22P00107	33 M 17	50	

MATRACCI O BEUTE ERLENMEYER NORME DIN 12353 con cono
12353 DIN STANDARD ERLENMEYER FLASKS with cone



M 31

Dimensione	Trasparente		Collo/Neck	Cono/Cone
	Codice	Modello Ø		
Ø 42 h 70 cc 25	22P00051	33 M 31		NS. 19
Ø 54 h 80 cc 50	22P00052	33 M 32		NS. 19
Ø 65 h 105 cc 100	22P00053	33 M 33		NS. 29
Ø 85 h 140 cc 250	22P00054	33 M 34		NS. 29
Ø 105 h 175 cc 500	22P00055	33 M 35		NS. 29
Ø 134 h 210 cc 1000	22P00057	33 M 37		NS. 29
Ø 51 h 80 cc 50	22P00152	33 M 42		NS. 29
Ø 64 h 105 cc 100	22P00153	33 M 43		NS. 29
Ø 85 h 140 cc 250	22P00154	33 M 44		NS. 45
Ø 105 h 175 cc 500	22P00155	33 M 45		NS. 45
Ø 130 h 210 cc 1000	22P00157	33 M 47		NS. 45



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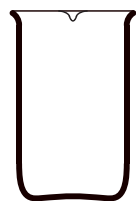




BICCHIERI CUPS



BICCHIERI NORME DIN 12330 a forma alta 12330 DIN STANDARD CUPS shallow



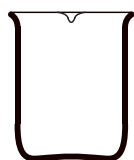
Bka

Dimensione	Trasparente	
	Codice	Modello
Ø 30 h 55 cc 25	20P00601	33 Bka 1
Ø 38 h 65 cc 50	20P00602	33 Bka 2
Ø 45 h 80 cc 100	20P00603	33 Bka 3
Ø 52 h 97 cc 150	20P00604	33 Bka 4
Ø 60 h 115 cc 250	20P00605	33 Bka 5
Ø 70 h 130 cc 400	20P00606	33 Bka 6
Ø 78 h 145 cc 600	20P00607	33 Bka 7
Ø 86 h 170 cc 800	20P00608	33 Bka 8
Ø 95 h 185 cc 1000	20P00609	33 Bka 9
Ø 115 h 235 cc 2000	20P00610	33 Bka 10



BICCHIERI NORME DIN 12330 a forma bassa

12330 DIN STANDARD CUPS deep



Bkb

Dimensione	Trasparente	
	Codice	Modello
Ø 21 h 29 cc 5	20P00501	33 Bkb 1
Ø 25 h 35 cc 10	20P00502	33 Bkb 2
Ø 32 h 47 cc 25	20P00503	33 Bkb 3
Ø 39 h 55 cc 50	20P00504	33 Bkb 4
Ø 49 h 70 cc 100	20P00505	33 Bkb 5
Ø 55 h 80 cc 150	20P00506	33 Bkb 6
Ø 69 h 90 cc 250	20P00507	33 Bkb 7
Ø 80 h 100 cc 400	20P00508	33 Bkb 8
Ø 90 h 115 cc 600	20P00509	33 Bkb 9
Ø 98 h 135 cc 800	20P00510	33 Bkb 10
Ø 105 h 145 cc 1000	20P00511	33 Bkb 11
Ø 130 h 185 cc 2000	20P00512	33 Bkb 12

APPARECCHIO DETERMINAZIONE CARBONIO/CARBON TEST APPARATUS

90P00570 mod. 33TDC1

Completo di corpo in quarzo, lana di quarzo e crogiolo con cono femmina.

Complete with body in quartz, quartz wool and crucible with female cone.

CROGIOLO TV/TV CRUCIBLE

90P00568

Con cono femmina ns. 29/32 per apparecchio determinazione carbonio (ricambio).

With our 29/32 female cone for carbon test apparatus (spare part).

CORPO IN QUARZO TV/TV QUARTZ BODY

90P00569

Con cono maschio ns. 29/32 e lana di quarzo per apparecchio determinazione carbonio (ricambio).

With our 29/32 male cone and quartz wool for carbon test apparatus (spare part).

LANA DI QUARZO PURISSIMA/VERY PURE QUARTZ WOOL

39P00501 mod. 33L 100 - confezione 100g/mod. 33L 100 - 100g package

39P00502 mod. 33L 200 - confezione 200g/mod. 33L 200 - 200g package

39P00503 mod. 33L 500 - confezione 500g/mod. 33L 500 - 500g package

Adatta alle alte temperature, per isolamento e riempimento

Ideal for high temperatures, insulation and filling.



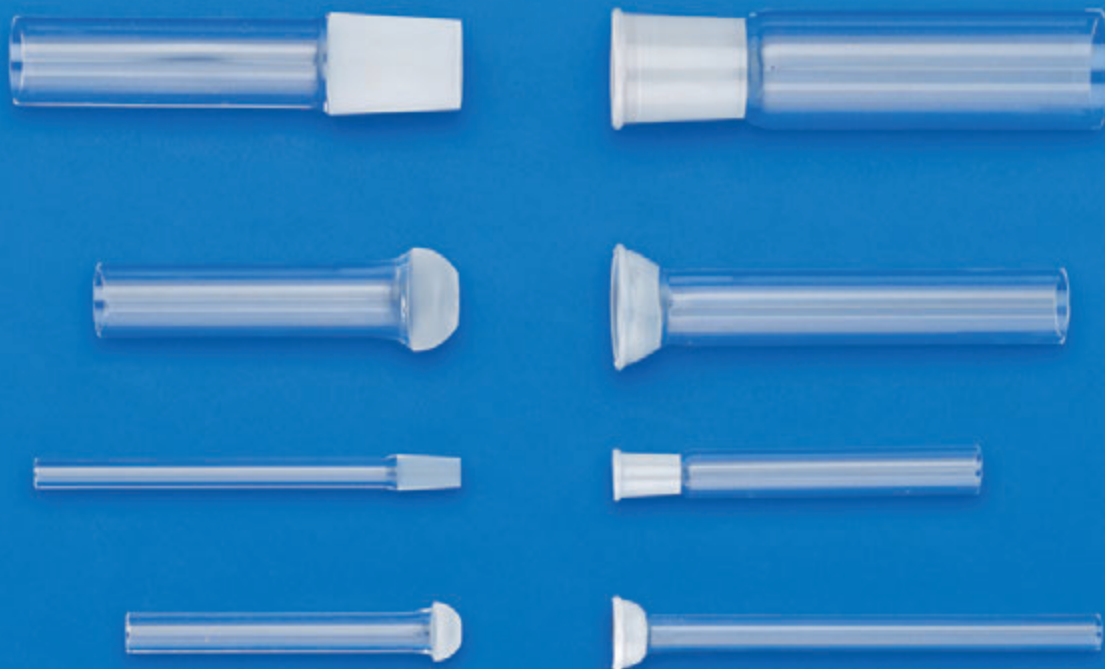
helios quartz





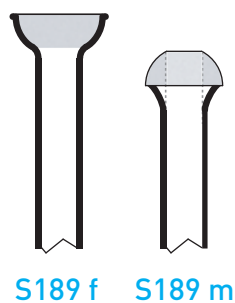
GIUNTI SFERICI e CONI

BALL JOINTS and CONES



GIUNTI SFERICI NORMALIZZATI NORME DIN 12244

12244 DIN STANDARD NORMALIZED BALL JOINTS



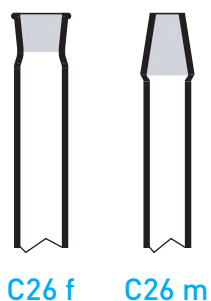
Femmina		Maschio	
Codice	Modello	Codice	Modello
71P00003	S 125 f-S 13	71P00053	S 125 m-S 13
71P00005	S 189 f-S 19	71P00055	S 189 m-S 19
71P00006	S 281 f-S 29	71P00056	S 281 m-S 29
71P00007	S 352 f-S 35	71P00057	S 352 m-S 35
71P00008	S 402 f-S 40	71P00058	S 402 m-S 40

N.B. Fornibili a richiesta giunti S51 - S64 - S76 - S102
N.B. With S51 - S64 - S76 - S102 joints on request.



CONI NORMALIZZATI STANDARD

STANDARD NORMALIZED CONES

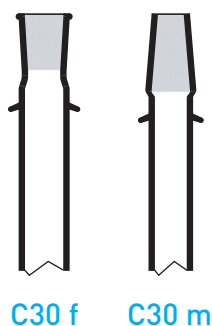


Femmina		Maschio	
Codice	Modello	Codice	Modello
71P00104	C10 f-NS 12/21	71P00154	C10 m-NS 12/21
71P00107	C21 f-NS 24/29	71P00157	C21 m-NS 24/29
71P00108	C26 f-NS 29/32	71P00158	C26 m-NS 29/32
71P00109	C31 f-NS 34/35	71P00159	C31 m-NS 34/35
71P00110	C41 f-NS 45/40	71P00160	C41 m-NS 45/40
71P00111	C56 f-NS 60/46	71P00161	C56 m-NS 60/46

N.B. Fornibili a richiesta altri modelli.
N.B. Other models available on request.

CONI NORMALIZZATI ALTO VUOTO

DEEP EMPTY NORMALIZED CONES



Femmina		Maschio	
Codice	Modello	Codice	Modello
71P00209	C30 f-NS 34,5/45	71P00259	C10 m-NS 34,5/45

N.B. Fornibili a richiesta altri modelli.
N.B. Other models available on request.

TAPPI CONICI TV PERPALLONI E MATRACCI

TV CONIC CAPS FOR FLASKS



Codice	Modello
71P00300	Cmt 10-NS 12/21
71P00302	Cmt 21-NS 24/29
71P00303	Cmt 26-NS 29/32
71P00305	Cmt 31-NS 34/35
71P00306	Cmt 41-NS 45/40
71P00308	Cmt 56-NS 60/46

N.B. Fornibili a richiesta altri modelli.
N.B. Other models available on request.

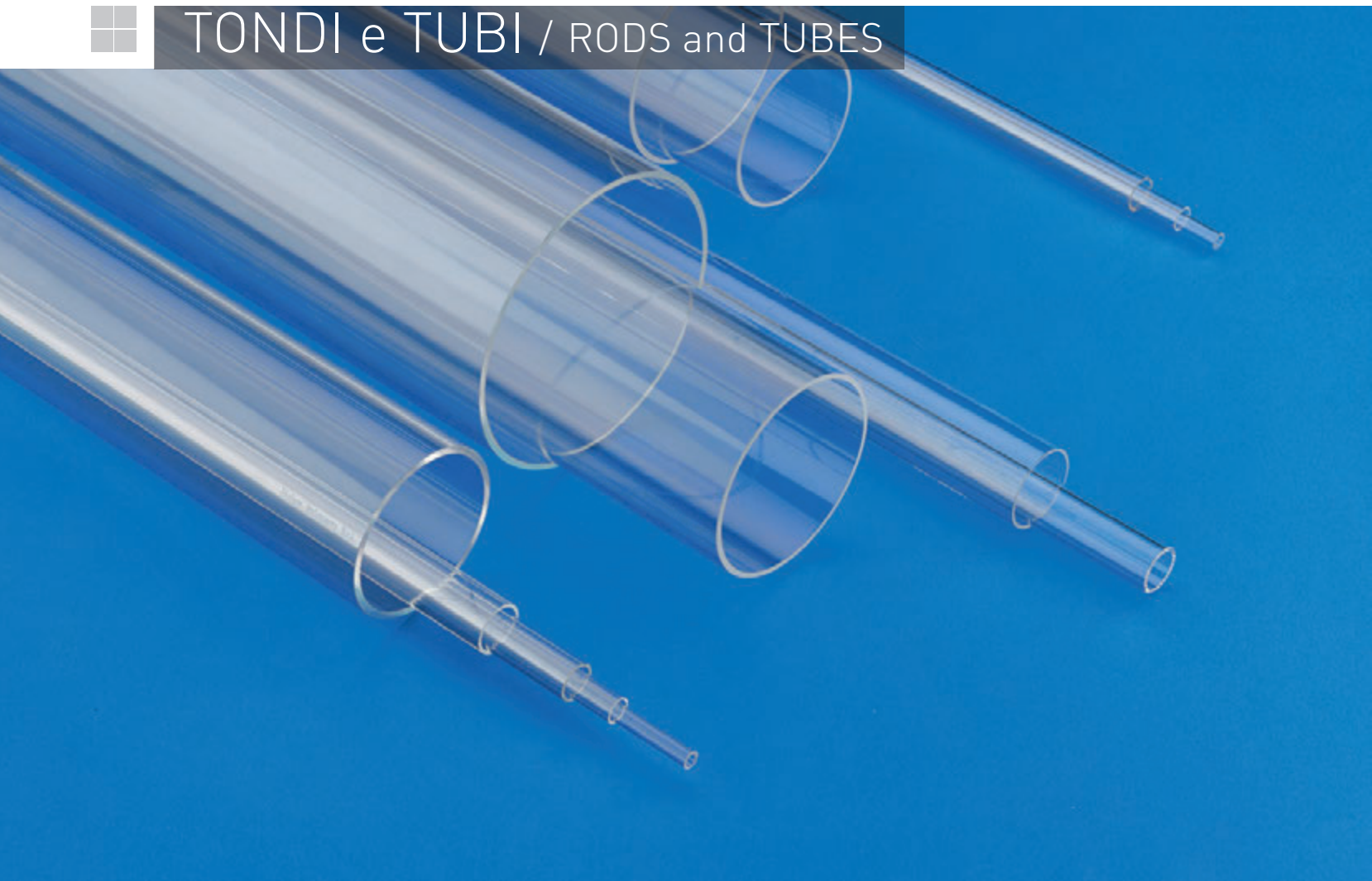


helios quartz





TONDI e TUBI / RODS and TUBES



TONDI TRASPARENTI T.V. 33 CLEAR RODS T.V. 33

Codice	Ø x L mm
98P00159	1,0 x 1000
98P00160	2,0 x 1000
98P00161	3,0 x 1000
98P00162	4,0 x 1000
98P00163	5,0 x 1000
98P00047	6,0 x 1000
98P00164	7,0 x 1000

Codice	Ø x L mm
98P00121	9,0 x 1000
98P00153	10,0 x 1000
98P00165	12,0 x 1000
98P00156	20,0 x 1000
98P00157	30,0 x 1000
98P00158	40,0 x 1000

Tondo grezzo trasparente, per ottica L 250 mm, a richiesta.- Qualità n°1 adatto da 260 nm in su.- Qualità n°3 adatto da 190 nm in su.
Rough transparent rod , for optics L 250 mm, on request.- Quality n°1 suited for 260 nm or more.- Quality n°3 suited for 190 nm or more.

Tolleranza diametro +- 5%
More or less 5% tolerance on diameter.



TUBI TRASPARENTI T.V. 33

CLEAR TUBES T.V. 33

Codice	Ø int. x Ø ext. x L mm	Codice	Ø int. x Ø ext. x L mm
99P00879	1,0 x 3,0 x 1000	99P00984	14,0 x 16,0 x 1000
99P00755	2,0 x 3,0 x 1000	99P00992	14,0 x 17,0 x 1000
99P00784	2,0 x 4,0 x 1000	99P00985	15,0 x 17,0 x 1000
99P00974	2,0 x 5,0 x 1000	99P00665	15,0 x 18,0 x 1000
99P00050	2,0 x 6,0 x 1000	99P00750	17,0 x 20,0 x 1000
99P00756	3,0 x 4,0 x 1000	99P00090	18,0 x 20,0 x 1000
99P00671	3,0 x 5,0 x 1000	99P00986	18,0 x 22,0 x 1000
99P00975	3,0 x 5,0 x 1000	99P00987	19,0 x 22,0 x 1000
99P00878	4,0 x 5,0 x 1000	99P00768	20,0 x 23,0 x 1000
99P00816	4,0 x 6,0 x 1000	99P00988	21,0 x 25,0 x 1000
99P00757	5,0 x 6,0 x 1000	99P00673	22,0 x 25,0 x 1000
99P00149	5,0 x 7,0 x 1000	99P00989	24,0 x 28,0 x 1000
99P00976	5,0 x 8,0 x 1000	99P00692	25,0 x 28,0 x 1000
99P00672	6,0 x 8,0 x 1000	99P00887	26,0 x 30,0 x 1000
99P00977	7,0 x 9,0 x 1000	99P00777	30,0 x 34,0 x 1000
99P00978	7,0 x 10,0 x 1000	99P00039	32,0 x 36,0 x 1000
99P00979	7,0 x 11,0 x 1000	99P00991	36,0 x 40,0 x 1000
99P00712	8,0 x 10,0 x 1000	99P00265	40,0 x 44,0 x 1000
99P00719	8,0 x 11,0 x 1000	99P00934	46,0 x 50,0 x 1000
99P00980	8,0 x 13,0 x 1000	99P00899	50,0 x 55,0 x 1000
99P00981	9,0 x 11,0 x 1000	99P00761	55,0 x 60,0 x 1000
99P00711	10,0 x 12,0 x 1000	99P00805	60,0 x 65,0 x 1000
99P00982	10,0 x 13,0 x 1000	99P00767	65,0 x 70,0 x 1000
99P00170	11,0 x 14,0 x 1000	99P00921	70,0 x 75,0 x 1000
99P00983	12,0 x 15,0 x 1000	99P00941	75,0 x 80,0 x 1000
99P00950	13,0 x 16,0 x 1000	99P00990	101,0 x 106,0 x 1000

Helios ha sempre a disposizione in magazzino la gamma completa di diametri maggiormente utilizzati. Grazie alla grande flessibilità produttiva, è in grado di realizzare prontamente tubi in quarzo con misure fuori standard e tolleranze molto ristrette anche in piccole serie; inoltre il laboratorio di soffiaria e produzione del vetro di quarzo di Helios è in grado di assecondare in breve tempo qualsiasi specifica richiesta e suggerire il corretto dimensionamento dei tubi di quarzo secondo le necessità del cliente.

Helios always keeps at stock the whole range of diameters, the most used. It is also able to produce tubes with non-standard dimensions, also with slight tolerances and for small quantities; our glass production department can meet in a very short time every request and it can advise also on the correct dimensions of quartz tubes according to the customers' requests.

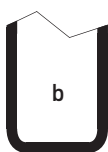


TUBI TRANSLUCIDI F.V. UNCLEAR TUBES F.V.

Codice	Ø int. X Ø ext. X L mm
99F00423	1,0 x 3,0 x 1000
99F00424	2,0 x 6,0 x 1000
99F00348	4,0 x 6,0 x 1000
99F00426	5,0 x 7,0 x 1000
99F00279	6,0 x 8,0 x 1000
99F00427	8,0 x 10,0 x 1000
99F00428	8,0 x 11,0 x 1000
99F00402	8,0 x 12,0 x 1000
99F00032	9,0 x 11,0 x 1000
99F00368	10,0 x 12,0 x 1000
99F00309	10,0 x 13,0 x 1000
99F00354	10,0 x 14,0 x 1000
99F00342	11,0 x 17,0 x 1000

Codice	Ø int. X Ø ext. X L mm
99F00278	12,0 x 15,0 x 1000
99F00429	13,0 x 15,0 x 1000
99F00395	14,0 x 18,0 x 1000
99F00425	15,0 x 19,0 x 1000
99F00430	16,0 x 20,0 x 1000
99F00293	18,0 x 22,0 x 1000
99F00431	22,0 x 26,0 x 1000
99F00432	25,0 x 30,0 x 1000
99F00259	26,0 x 29,0 x 1000
99F00433	27,0 x 32,0 x 1000
99F00434	30,0 x 34,0 x 1000
99F00435	32,0 x 36,0 x 1000
99F00263	35,0 x 40,0 x 1000

GUAINE DOMED TUBES



Helios è in grado di realizzare anche guaine in quarzo trasparente o translucido con misure fuori standard e tolleranze molto ristrette; inoltre il laboratorio di soffieria e produzione del vetro di quarzo di Helios è in grado di assecondare in breve tempo qualsiasi specifica richiesta e suggerire il corretto dimensionamento delle guaine di quarzo secondo le necessità del cliente.

Disponibili nella configurazione con fondo tondo (a) o fondo piatto (b).

Helios is also able to produce clear or unclear quartz domed tubes with non-standard dimensions and with slight tolerances; our glass production department can meet in a very short time every request and it can advise also on the correct dimensions of quartz domed tubes according to the customers' requests.

Availables with round bottom (a) or flat bottom (b).



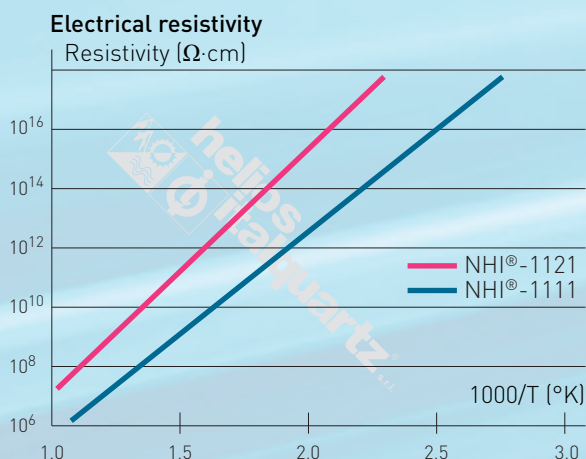
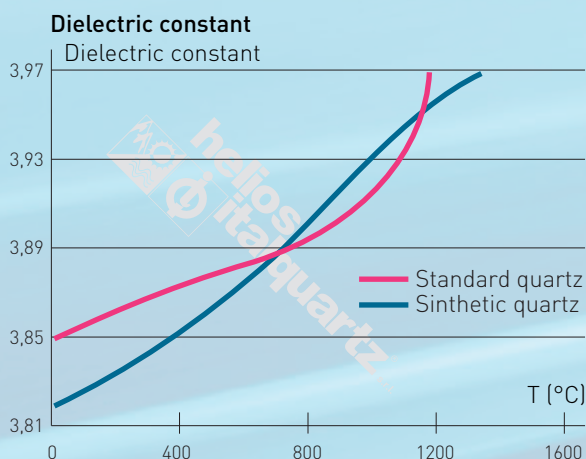


ELECTRICAL PROPERTIES

Quartz is an excellent electric insulating material and presents the following electrical properties:

- electrical resistivity (350°): 7×10^7 ohm x cm
- dielectric constant (20°C - 1MHz): 3,76
- insulated strength (20°C - 1MHz): 5×10^7 V/m
- dielectric absorbance constant: $<4 \times 10^{-4}$
- dielectric ullage constant: $<1 \times 10^{-4}$

The following graphs show the trend of the dielectric constant for synthetic and natural quartz, the trend of the electrical resistivity for the NHI®-1111 and NHI®-1121 quartz, according to the variation of the working temperature.



MECHANICAL PROPERTIES

The mechanical properties are influenced from the shape, the impurity level or the presence of defects on the surface and from the age of the material.

The following table shows the main parameters of the mechanical properties of each quality of quartz produced by Helios.

QUALITY CLASS	DENSITY	HARDNESS	COMPRESSIVE STRENGTH	TENSILE STRENGTH
NHI®-1100 NHI®-1101 NHI®-1102	$2,2 \times 10^3 \text{ kg/m}^3$	550 KHN ₁₀₀	$>1,1 \times 10^9 \text{ Pa}$	$4,7 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1111 NHI®-1112 NHI®-1121	$2,2 \times 10^3 \text{ kg/m}^3$	580 KHN ₁₀₀	$>1,1 \times 10^9 \text{ Pa}$	$4,9 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1200 NHI®-1210	$2,2 \times 10^3 \text{ kg/m}^3$	580 KHN ₁₀₀	$>1,1 \times 10^9 \text{ Pa}$	$5,0 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1300	$2,21 \times 10^3 \text{ kg/m}^3$	580 KHN ₁₀₀	$1,2 \times 10^9 \text{ Pa}$	$5,0 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1100 UC NHI®-1103 UC	$2,15 \times 10^3 \text{ kg/m}^3$	550 KHN ₁₀₀	$1,0 \times 10^9 \text{ Pa}$	$5,0 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1300 UC	$2,15 \times 10^3 \text{ kg/m}^3$	580 KHN ₁₀₀	$1,0 \times 10^9 \text{ Pa}$	$5,0 \times 10^7 \text{ Pa (N/m}^2\text{)}$
NHI®-1400	$2,15\text{-}2,18 \text{ g/m}^3$	580 KHN ₁₀₀	$1,2 \times 10^9 \text{ Pa}$	$50 \times 10^7 \text{ Pa (N/m}^2\text{)}$



helios quartz

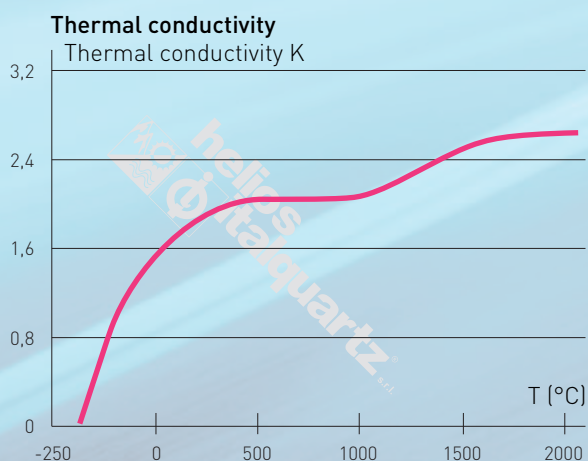
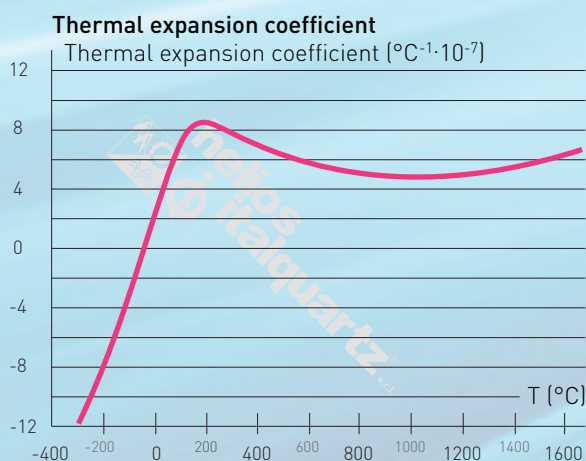


THERMAL PROPERTIES

The main characteristic of fused quartz glass under the thermal point of view is its low thermal expansion coefficient ($5.5 \times 10^{-7} \text{ cm/cm}^\circ\text{C}$). The material has an exceptional thermal stability compared to traditional glass. If fused quartz glass is heated up to 1100°C and kept at this temperature for about an hour, it will not change color. It has also an excellent thermal shock resistance; if the material is warmed up to a temperature of 1100°C and then suddenly cooled down to 20°C and if we repeat this procedure for three times, the piece of quartz glass does not break.

Fused quartz glass is a solid material at ambient temperature, however at high temperature it behaves just like any other glass type, it does not have a specific fusion temperature and it softens at about 1630°C acting like a plastic material. This state transformation lasts for a wide range of temperature and it is characterized by the changing of viscosity with the variation of temperature.

The following graphs show the trend of the thermal expansion coefficient and of the thermal conductivity, according to the temperature.



The following table shows the main parameters of the mechanical properties for each quality of quartz produced by Helios Italquartz.

QUALITY CLASS	SOFTENING TEMPERATURE	ANNEALING TEMPERATURE	SPECIFIC HEAT (20°C)	THERMAL CONDUCTIVITY (20°C)	THERMAL EXPANSION COEFFICIENT (20°C-300°C)	MAX WORKING TEMPERATURE LONG/SHORT TERM
NHI®-1100 NHI®-1101 NHI®-1102	1630 °C	1150 °C	660 J/Kg °C	1,4 W/m °C	$5,5 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1111 NHI®-1112 NHI®-1121	1680 °C	1215 °C	670 J/Kg °C	1,4 W/m °C	$5,5 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1200 NHI®-1210	1700 °C	1220 °C	690 J/Kg °C	1,4 W/m °C	$5,5 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1300	1690 °C	1200 °C	690 J/Kg °C	1,4 W/m °C	$5,5 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1100 UC NHI®-1103 UC	1580 °C	1100 °C	640 J/Kg °C	1,4 W/m °C	$5,4 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1300 UC	1600 °C	1120 °C	650 J/Kg °C	1,4 W/m °C	$5,4 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C
NHI®-1400 NHI®-1410	1600 °C	1120 °C	720 J/Kg °C	1,2 W/m °C	$5,4 \times 10^{-7} \text{ cm/cm } ^\circ\text{C}$	1100/1250 °C



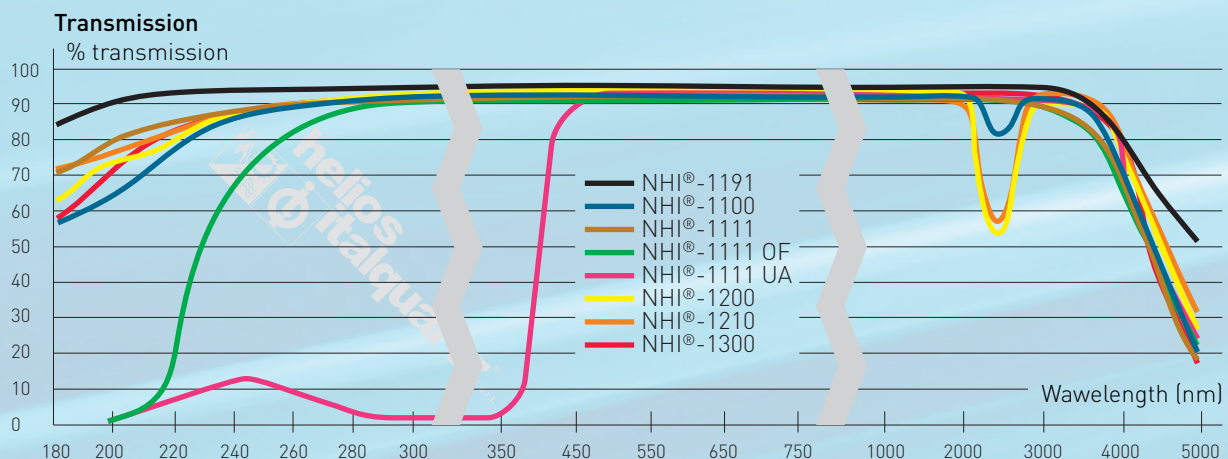
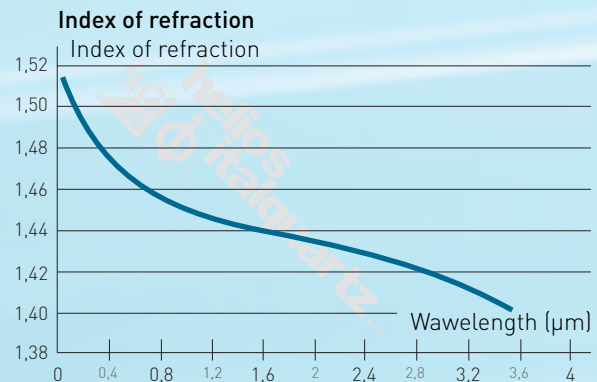


OPTICAL PROPERTIES

Fused Quartz's optical properties depend on its transparency level and on the production method and they are far better than the standard glass because quartz glass has a much higher purity level.

The graph on the right shows the trend of the index of refraction according to the wavelength.

The graph below shows the transmission spectrum according to the wavelength.





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