

When the density of the dosage form is less than the density of the dissolution media, floating may occur. USP 711 states: "A small, loose piece of non-reactive material such as not more than a few turns of wire helix may be attached to dosage units that would otherwise float. Other validated sinker devices may be used."

The choice of sinker or capsule weight depends on the type and size of the dosage form. The sinker should not occlude the surface of the dosage form more than necessary because of the risk of affecting the dissolution rate.

Sinkers are available coated or uncoated. PTFE coated sinkers work well with magnetic retrievers whilst uncoated type 316 stainless steel sinkers are more durable. Care should be taken to ensure that direct contact of stainless steel with the dosage form does not cause interference with the active ingredient.

Standard Sinker Specifications:

Catalogue Number	Style	Material	Coating	ID x Length (inches)	For Capsule Size	Wire Dia (inches)	No. of Coils	Weight (g)
CAPWHT-02	Helix	Music Wire	PTFE	.370 x 1.000	4, 3, 2, 1, 0	.050	8.5	2.05
CAPWHT-2S	Helix	316 S.S.	None	.370 x 1.000	4, 3, 2, 1, 0	.043	8.5	2.85
CAPWHT-04	Helix	Music Wire	PTFE	.385 x 1.030	4, 3, 2, 1, 0	.043	5	1.70
CAPWHT-4S	Helix	316 S.S.	None	.385 x 1.030	4, 3, 2, 1, 0	.052	5	1.95
CAPWHT-VK	3 Prong	Nylon / P.P.	None	.275 x 1.00	3, 2	N/A	N/A	0.90
CAPWHT-XL	Helix	Music Wire	PTFE	.465 x 1.322	00, 000	.050	5.5	2.15
CAPWHT-LG	Helix	Music Wire	PTFE	.410 x 1.322	00, 000	.054	5	2.00
CAPWHT-TR	Butterfly	316 S.S.	None	N/A	N/A	.032	N/A	0.55
CUSBSK-JP	Basket	316 S.S.	None	.470 x .935	4, 3, 2, 1	.038	8	4.00
BSK008-01	Basket	316 S.S.	None	.677 x 1.016	4, 3, 2, 1, 0, 00, 000	.026	9	5.40
BSK008-JP	Basket	316 S.S.	None	.524 x .903	4, 3, 2, 1, 0, 00	.025	8	3.85
CAPWHT-S99	O-Ring	316 S.S.	None	.466 x 1.015	2, 1	N/A	N/A	1.14
WIRESK-VK	Wire 50ft	316 S.S.	None					



CAPWHT-02



CAPWHT-2S



CAPWHT-04



CAPWHT-4S



CAPWHT-VK



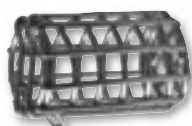
CAPWHT-XL



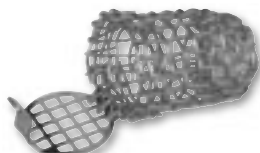
CAPWHT-LG



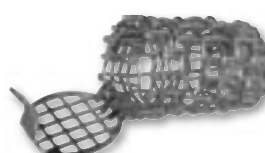
CAPWHT-TR



CUSBSK-JP



BSK008-01



BSK008-JP



CAPWHT-S99

Custom configurations

Specialised custom weights and sinkers are also available. Contact SMI-LabHut to discuss your specific requirements.