

POLESY

SINCE 1950

Hyperbolic™

Self-Restraining FIBC





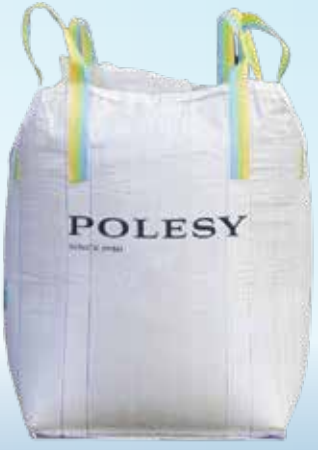
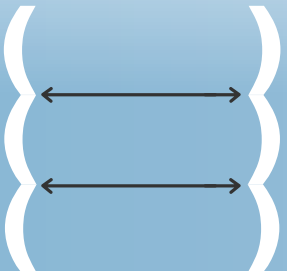
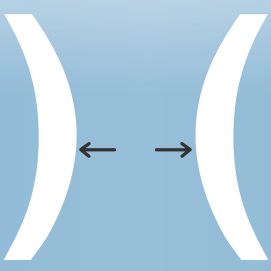
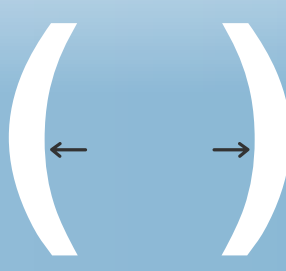
**An improvement on Baffle Bags.
Think Modern. Think Hyperbolic.™**

Hyperbolic™ FIBC

Storage and transportation of bulk material in traditional FIBCs requires more space due to the bulging of the bag that is inherent to its design. Baffle Bags have commonly been used to overcome this with internal baffles. These require additional bag fabric, adding weight, and additional stitching, adding complexity and more potential points of failure to the production of the bag.

To provide the benefit of a Baffle Bag, without the additional weight and complexity, our supply partners have developed the Hyperbolic fabric weaving technology that negates the outward force of the contained bulk material, resulting in a hyperbolic shape without the use of internal baffles. Hyperbolic FIBCs have better stability and optimise storage and transport space.

Space Utilisation Ratio

Baffle Bag	Hyperbolic™ FIBC	Traditional FIBC
		
		
<p>Controlled Parabolic</p>	<p>Hyperbolic™</p>	<p>Parabolic</p>
<p>Bulge control but low volume due to internal baffles.</p>	<p>Precise bulge control without internal baffles & greater volume "Hyperbolic™ Technology".</p>	<p>Bulging after filling the FIBC, taking up more space.</p>

BAFFLE BAG VS HYPERBOLIC FIBC

REGULAR BAFFLE BAG DIMENSIONS	CIRCULAR HYPERBOLIC BAG DIMENSIONS	FABRIC GSM	REGULAR BAFFLE BAG WEIGHT (GMS)	HYPERBOLIC FIBC WEIGHT (GMS)	% WEIGHT SAVINGS
100 x 100 x 160 cm	93 x 93 x 160 cm	160	2377	1777	25%
100 x 100 x 160 cm	93 x 93 x 160 cm	170	2467	1859	24%
100 x 100 x 160 cm	93 x 93 x 160 cm	180	2556	1940	24%
105 x 105 x 160 cm	97 x 97 x 160 cm	160	2477	1844	25%
105 x 105 x 160 cm	97 x 97 x 160 cm	170	2571	1929	24%
105 x 105 x 160 cm	97 x 97 x 160 cm	180	2665	2014	24%
110 x 110 x 160 cm	102 x 102 x 160 cm	160	2578	1928	25%
110 x 110 x 160 cm	102 x 102 x 160 cm	170	2577	2018	24%
110 x 110 x 160 cm	102 x 102 x 160 cm	180	2775	2108	24%

25% reduction in bag weight

Hyperbolic™ FIBC

Hyperbolic™ FIBC



KEY FEATURES:

- Easier to use because there are no internal baffles and therefore no need for staff to oversee filling or discharge.
- No vertical seams reduces potential points for failure.
- Hyperbolic FIBCs allow up to 30% greater storage optimisation than a traditional FIBC.
- Reduced polymer per FIBC means a more sustainable way to pack.

GLOBAL PATENT APPLICATION NO. : PCT/IN/2023/050109

TRADITIONAL BAFFLE BAG CHALLENGES

- Traditional Baffle Bag: Bulge Control by Internal Baffling
- Total 12 Vertical seams, meaning greater complexity in manufacturing
- Not optimal for food and pharmaceutical packing
- Higher cost due to more fabric and stitching required
- More polymer fabric used means greater environmental impact



Get rid of internal baffles which reduce the bag's volume and impact fill and discharge flow.