

PRODUCT SPECIFICATION – BALLAST BAG

Revision 06-2026

1000D CORDURA® NYLON

Property	Specification	Test Method
Material	1000D Cordura® Nylon	
Fabric Weight	9.5 oz/yd ² (322 g/m ²)	ASTM D3776 / D3776M
Finish	Durable Water Repellent (DWR)	
Coating	3/4 oz Urethane	
Weave	Plain	
Fiber Content	100% Nylon 6,6	AATCC 20 / AATCC 20A
Yarn Size	1000D Warp / 1000D Fill	ASTM D1907
Yarn Count	24 × 23 per inch	ASTM D3775
Grab Tensile	420 lb × 370 lb	ASTM D5034
Tear Strength	30 lb × 25 lb	ASTM D2261
Abrasion Resistance	Excellent >3,000 cycles	ASTM D3884
Colorfastness to UV	Fair (Grade 2-3)	AATCC TM16.3
Water Flow Rate	<.1 CFM (Water Resistant)	ASTM D737
Flame Retardant	No	ASTM D6413

Note: Typical values for 1000D Cordura® nylon fabric construction. Values may vary by production lot.

#92 DOUBLE LOCK STITCH BAG CLOSURE

Property	Specification	Test Method
Thread Material	#92 Bonded Polyester	ASTM D204
Thread Tensile Strength	15 lb minimum	ASTM D2256
Seam Construction	Double Lockstitch	ASTM D6193
Seam Strength	100 lb minimum	ASTM D1683
Thread UV Resistance	Excellent	ASTM G154
Thread Colorfastness	Grade 4–5	AATCC TM16.3
Country of Origin	USA	Berry Amendment (10 U.S.C. § 4862)

Chip Rock (#7 Coarse Aggregate)

Physical & Material Properties

Property	Specification	Test Method
Material	Crushed Stone Aggregate	ASTM C33
Classification	#7 Coarse Aggregate	ASTM C33
Color	Natural Gray / Tan	—
Density (Unit Weight)	101.8 lb/ft ³	ASTM C29
Material Hardness	Quartz Based (Mohs ~7)	Mineral Hardness Scale
Bulk Specific Gravity (SSD)	2.781	ASTM C127
Bulk Specific Gravity (Dry)	2.768	ASTM C127
Apparant Specific Gravity	2.805	ASTM C127
Absorption	0.50%	ASTM C127
Voids in Aggregate	41.00%	ASTM C29

Aggregate Quality Characteristics

Property	Specification	Test Method
Fractured Faces (1 Face)	100%	ASTM D5821
Fractured Faces (2 Faces)	100%	ASTM D5821
Flat & Elongated Particles (3:1)	0.00%	ASTM D4791
Flat & Elongated Particles (5:1)	0.00%	ASTM D4791
LA Abrasion Loss (500 Rev)	21%	ASTM C131
Sodium Soundness Loss	0%	ASTM C88
Clay Lumps & Friable Particles	0.00%	ASTM C142
Lightweight Particles	0.00%	ASTM C123
Cleanliness Value (CV)	94	Nevada Test 228

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Chip Rock (#7 Coarse Aggregate)

Sieve Analysis

Sieve Size	Percent Passing
1"	100%
3/4"	100%
1/2"	98%
3/8"	61%
#4	2%
#8	1%
#16	1%
#30	1%
#50	1%
#100	1%
#200	0.50%

Steel Shot (Optional)

Property	Specification	Test Method
Material	Low Carbon Cast Steel Shot	Manufacturer Specification
Composition	>96% Iron (Fe)	SDS Chemical Analysis
Shape	Near Spherical	Visual Inspection
Color	Light Gray / Silver	Visual Inspection
Specific Gravity	7.4 - 7.8	ASTM E12
Bulk Density	280 - 300 lb/ft ³	ASTM B527
Moisture Absorption	None	Material Characteristic
Water Solubility	Insoluble	Material Characteristic
Combustibility	Non-Combustible	SDS
Magnetic	Yes	Material Characteristic
Non-Hazardous	Yes	SDS

DIMENSION		
WEIGHT (lb)	SAND FILLED (L x W x H in)	SHOT FILLED (L x W x H in)
5	11 x 7 x 3	8 x 6 x 3
10	16 x 8 x 3	12 x 7 x 3
15	17 x 9 x 3	14 x 7 x 3
20	20 x 12 x 3	14 x 8 x 3
25	20 x 14 x 3	14 x 10 x 3
30	22 x 15 x 3	15 x 11 x 3
35	24 x 15 x 3	16 x 12 x 3
50	-	20 x 12 x 3

