

Meteorological Products Incorporated
Duluth, Minnesota

Technical Data Bulletin
4 ft. Tracking Sphere
Ref. NSN 5840-00-751-9301

1.0	Shape	Sphere
2.0	Size	4.00 ft/1.21 m diameter 3.14 ft ² /1.17 m ² cross-sectional area
3.0	Material	2 mil metallized polyester resistivity less than 5 ohm/square
4.0	Weight	Approximate 1 lb/450 grams to give maximum altitude of 24,000 ft.
5.0	Gore Design	18 gores, sealed with thermoplastic tape
6.0	Volume	33.51 ft ³ /0.95 m ³
7.0	Inflation Valve	1/4 inch/6.35 cm metal with cap, diffuser and plastic tie loop
8.0	Relief Valve	7/8 inch/26.67 cm designed for 20 inches of H ₂ O super-pressure
9.0	Tolerances	Diameter to +/- 5 %
10.0	Quality Assurance	Balloons pressure tested at 20 in. H ₂ O for 60 minutes
11.0	Packaging	Each balloon is wrapped in protective polyethylene cover, and packaged in a cardboard box