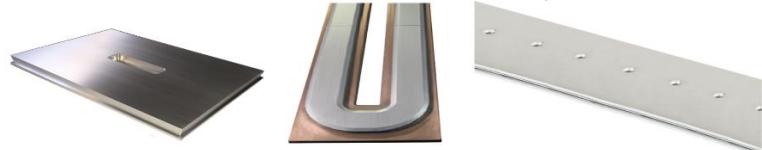


RELIABLE TECHNICAL MATERIALS

OUR NAME IS OUR PROMISE

SILVER SPUTTERING TARGETS FOR LARGE AREA COATINGS



Why Reliable?

Tell us what technical and commercial variables are most important for your company. Whether it be cost, metal management, grain structure, material purity, something else, or a combination thereof, Reliable is uniquely positioned to serve our customers with a product that best meets their needs not our convenience.

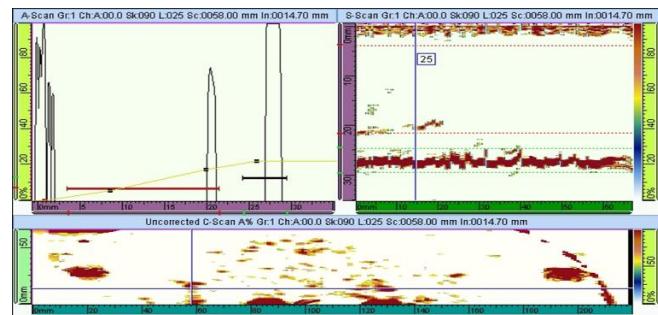
Technical Parameters

- **Purity:** 3N7, 4N, and 4N5 are commonly available and oxygen content in the silver is <50 ppm. However, let us know if you have a different requirement.
- **Grain Structure:** Grain structure is a key attribute which can affect sputtered film uniformity and sputter rate. Small and uniform grains that do not come at the expense of higher porosity (i.e. from sprayed targets) generally yield the best results. However, cost tradeoffs are often a key consideration. Reliable Silver employs various process options to achieve the right mix of tradeoffs according to our customers' requirements. A range of grain sizes from 13 to 150 micron is shown below.



Quality Control

- **Ultrasonic Analysis:** Ultrasonic c-scan mapping of targets is available to confirm both the absence of voids and proper bonding, where required. Reliable Silver generates 2-dimensional or plan view color maps to confirm desired outcomes in the target.



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