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Comparing Argentium® 935 & Argentium® 935 PRO

Argentium® Silver: Which alloy is right for you?

Argentium® Silver alloys have been developed for specific uses. Here is a quick guide to helping you choose the most suitable alloy for your needs.

Argentium® Silver 935 Original

This alloy is based on the original formulation of Argentium, developed by master silversmith Peter Johns. Its .935-pure silver content ensures that Argentium® Original is more pure than traditional sterling silver. The alloy offers a lustrous bright-white finish with superior firestain resistance, durability and tarnish resistance. Argentium Original has excellent mechanical properties and is a perfect choice for mill product applications.

Argentium® Silver 935 PRO

This alloy is specifically developed to deliver consistent and reliable results for investment casting applications. Argentium® 935 PRO has excellent as-cast surface quality with firestain resistance—this means that cast items can be easily finished to a beautiful luster. Tarnish resistance helps to maintain the bright-white color of finished pieces. This alloy provides an excellent durability and is suitable for delicate and stone-in-place castings.

Application	Argentium® 935 Original	Argentium® 935 PRO	Discussion
Wrought products such as sheet, wire or tubing	✓		Original alloy enables good reductions (70% cold work) when rolling or drawing wrought products to the required gauge.
Casting with basic torch melting & open crucible	✓		Original alloy has a wider melting range than Argentium 935 PRO which makes it more tolerant of limited metal temperature controls.
Casting simple shapes in small numbers using a closed induction system	✓	✓	When casting limited numbers of basic designs, either alloy performs well, giving you the flexibility to choose the alloy based on other uses you may have for Argentium® silver in the workshop.
Casting many small pieces using a closed induction system		✓	935 PRO provides improved fluidity that enables a more complete fill when casting many small items.
Casting pieces with large surface area using a closed induction system		✓	935 PRO provides an improved fill and reduced porosity when used to cast items with flat surfaces or large surface areas.
Casting fine filigree pieces using a closed induction system		✓	935 PRO provides improved fluidity that helps ensure a complete fill when casting fine filigree items.

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