

Special Alloy Needs? Be Confident that Swagelok will Deliver

There are many ways to build a special alloy fluid system product. But at Swagelok, there is really only one way: do whatever is needed to design and build the highest-quality, most-compatible special alloy products possible. This is the same approach we use for every product and service at Swagelok. After all, who else can match the industry knowledge, metallurgy expertise, quality reputation, layers of support, and design and manufacturing skills of Swagelok Company?

Industry knowledge



For more than 60 years, Swagelok has solved fluid system problems in some of the world's most demanding environments. In turn, we've developed a strong understanding of even the most complex applications involving high levels of corrosion potential, pressure

containment, pitting, and sour gas — all good candidates for special alloys. These severe applications are often found in the oil and gas, chemical processing/refining, and desalination industries. But the knowledge we've gained in those tough environments will benefit you, regardless of what you produce and where you produce it.





Our focus is the customer

Metallurgy expertise



For decades, Swagelok Company has helped design engineers meet their special alloy needs. And, as your special alloy needs evolved, so has our ability to fulfill them by:

- *Continuously investing in world class equipment*
- *Staffing in-house experts who understand metallurgy*
- *Building relationships with raw material suppliers*

- *Warehousing a wide variety of special alloys*
- *Refining our material-selection skills*

For any fluid system product to deliver high-caliber performance and long life, the design and material must work together. We have ratings and test reports for special alloys, and use that data to help ensure that an alloy is right for a given product design. And because we make our own tooling, Swagelok is fully capable of properly machining and processing these special alloys. When the component arrives, you can be confident that Swagelok has done the right amount of due diligence.

Quality is our brand



Swagelok doesn't just have a department dedicated to quality; it has an entire company dedicated to it. And that quality focus starts at the beginning — during material selection. Rather than buying material off the shelf, Swagelok chooses to vigorously control material quality by:

- *Holding the mills to tighter alloy and quality specifications*
- *Employing positive material identification*
- *Using technology-based methods of non-destructive testing (NDT)*
- *Staffing dedicated engineers who work exclusively with the supply chain*

These controls help prevent possible material defects from reaching the final product. They also enhance material consistency. Maintaining that standard is Swagelok's proven world-wide Swagelok Quality System (SQS). Take confidence in the fact that your Swagelok special alloy product will not only be of high integrity, but also work as expected in the intended application.

A team to help

Your direct contact for Swagelok special alloy components will be the representative at your Swagelok authorized sales and service center. Consider these representatives your special alloy consultants. They'll help you determine which Swagelok fluid system products can be produced in which alloys, plus provide any related services and support.

Adding an additional level of expertise and value, as needed, will be Swagelok Company on-staff metallurgists, technical service representatives, degreed engineers, possibly even our material suppliers. Combine all of our expertise with your expertise and the result is one strong team capable of making sound decisions.

Easy to specify and order

Yes, choosing the right alloy can be somewhat difficult. Your Swagelok sales and service representative will streamline the process of finding, specifying, and ordering:

- *In-stock special alloy products* — ball valves, needle valves, fittings, more
- *Made-to-order (MTO) special alloy products* — design/alloy combinations that are available, but not held in stock
- *Custom special alloy products* — through Swagelok Custom Solutions. Let us look into custom combinations.

 <p>Ball Valves</p>	 <p>Industrial Weld Fittings</p>	<p>Titanium</p>	 <p>Bleed Valves</p>	<p>Alloy 276</p>
 <p>Manifolds</p>	<p>Alloy 400</p>	 <p>Flange Adapters</p>	<p>Alloy 20</p>	 <p>Tube Fittings</p>
<p>Alloy 625</p>	 <p>Check Valves</p>	<p>Alloy 600</p>	 <p>Tubing</p>	<p>Alloy 825</p>
 <p>Regulators</p>	 <p>Monoflanges</p>	<p>6-Moly</p>	<p>2507</p>	 <p>Needle Valves</p>



We know that you have safety, cost, and environmental concerns because of applications involving corrosion, pressure containment, pitting, sour gas, and other factors. And that is why we continue to develop fluid system products in a wide and

expanding range of special alloys. Whether you are a systems designer or charged with systems maintenance, Swagelok can deliver the fluid system products you want in the alloys you need.