

SPECIFICALLY DESIGNED FOR EXTREME ENVIRONMENTS

INCOLOY® Alloy 945X® delivers downhole dependability, ensures maximum uptime, and reduces operational and business risks. This innovative material from Special Metals, a PCC company, provides the high strength and corrosion resistance needed by the energy sector for applications in the most challenging environments.

INCOLOY® Alloy 945X® [UNS N09946] is a high-strength, corrosion-resistant superalloy designed for demanding oil and gas applications. This age hardenable nickel-iron-chromium alloy is enhanced with molybdenum, copper, niobium, titanium, and aluminum.

Its resistance to stress cracking in extreme environments such as subsea hydrogen sulfide-rich plays makes it an ideal choice for downhole and surface gas-well components including tubular products, valves, hangers, landing nipples, tool joints and packers.

APPLICATIONS

Potential uses include downhole and surface gas well components including:

- OCTG
- Subsurface Safety Valves
- Tubing Hanger
- Valves
- Landing Nipples
- High Strength Piping
- Packers
- Drill Tools
- Tubular Products
- Hangers
- Tool Joints

SIZES

- Rod size availability is from 0.5" to 22".
- Tube sizes to 26" OD with a combination of wall sizes.

STRENGTH

Extensive testing has proven excellent corrosion resistance. The alloy is incorporated in NACE MR0175 / ISO-15156-3 for level VII and for level VI at 450F to a Max hardness of RC 42.

- 140 ksi Minimum Yield Strength
- 140 ksi and 160 ksi materials readily available



WWW.SPECIALMETALS.COM

SPECIAL METALS
3200 RIVERSIDE DR.
HUNTINGTON, WV 25705, USA
T 304-526-5100
E SMCSALES@SPECIALMETALS.COM

SPECIAL METALS WELDING PRODUCTS
1401 BURRIS RD.
NEWTON, NC 28658, USA
T 800-624-3411
E SMCSALES@SPECIALMETALS.COM



PUSHING WHAT'S POSSIBLE IN THE ENERGY INDUSTRY

The names that comprise PCC Energy Group have been on the forefront of the energy industry for decades. As part of PCC Energy Group, Special Metals works to help you better tackle your toughest energy industry needs. Backed by the strength and leadership of our Fortune 500 parent company, Precision Castparts Corp., our engineers and metallurgists work closely with the world's most innovative energy companies to identify high-performance applications where we can help enhance operational performance.



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