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MATERION PRODUCTS

voestalpine Specialty Metals
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Unique property combinations make Alloy 25 and ToughMet® 3 alloys the materials of choice in the oil and gas industry.

These materials outperform other high-strength alloys, extending the reach and accuracy of oil and gas drilling tools and increasing the reliability of well control, completion and production.

Alloy 25 and ToughMet Advantages:

- High Strength
- Low Friction
- Non Magnetic
- Excellent Machinability
- Corrosion, Wear, Erosion and Galling Resistance

Alloy 25

Alloy 25 is a high strength, non-magnetic alloy that can be precipitation hardened to specific property combinations.

Typical applications include MWD/LWD instrument/battery housings and threaded components, subsea actuator stems and metal seals.

Alloy 25 offers the best thermal and electrical conductivity in a high strength material and is the ideal choice for heat sink chassis.

Alloy 25 HT ROD	1.0" - 3.0"
Alloy 25 AT ROD	1.0" - 9.0"
Alloy 25 HT TUBE	1.875" - 1.50" ID 1.75" - 1.441" ID 1.875" - 1.125"



MATERION

voestalpine Specialty Metals

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ToughMet® 3 Alloys

ToughMet copper nickel tin alloys provide high performance property combinations beyond those found in other alloys. They resist most sour environments and retain their strength at elevated and sub-zero temperatures.

ToughMet alloys are available in different tempers that meet specific application requirements.

ToughMet® 3 AT110

Is a hot worked and spinodally hardened alloy available in many product forms and sizes.

It has good ductility, resilience and low friction. Typical applications include bearings, threaded components and metal seals.

ToughMet® AT110 ROD	1" - 9.25"
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ToughMet® TS

Are cold worked, spinodally hardened alloys designed to provide additional property attributes for the most demanding applications.

ToughMet TS95 and TS120U tempers combine high levels of fracture toughness with strength to resist impact loading.

ToughMet TS95 temper also provides the highest mechanical wear resistance of the ToughMet alloys.

ToughMet TS130, TS150 and TS160U tempers offer the highest strength for the most demanding static structural loads and pressures.

ToughMet® TS 150 Tube	1.693" - 1.417" ID 1.875" - 1.50" ID
ToughMet® TS 160U Rod	.25" - 6.00"
ToughMet® TS 95 Rod	.75" - 6.00"
ToughMet® TS 120U Rod	.75" - 6.00"
ToughMet® TS 130 Rod	.75" - 6.00"

ToughMet® is a Registered Trademark of Materion Brush Inc.

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