

PYROMET 882



Pyromet 882 is a 5 wt. % chromium hot work tool steel with excellent high temperature strength and tempering resistance.

The **good thermal stability of Pyromet 882's microstructure imparts good strength up to 1000°F and good creep and stress rupture resistance between 850–1200°F.** This alloy has found applications in aerospace and defense structural components. Additionally, many tools and dies have used Pyromet 882 for its high wear resistance, microstructural stability, and elevated strength. This alloy is also referred to as H11 tool steel.

Similar alloy: H11



KEY FEATURES OF PYROMET 882

- **High-temperature resistance:** Pyromet 882 is known for its good stress rupture and creep resistance in the temperature range of 800–1250°F. The alloy's good hardness makes it a great candidate for heavy duty tooling, dies, and hot forging tools.
- **Strength:** Pyromet 882 offers excellent room temperature strength, especially in compressive loading, and features good microstructural stability to retain its balance of strength at elevated temperatures.
- **Versatile applications:** Due to its excellent strength and thermal stability properties, Pyromet 882 is used in a variety of industries, including aerospace, but predominantly hot work and tool steel applications, such as molding dies, bulldozer dies, hot heading dies, extrusion dies, and punches.

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