

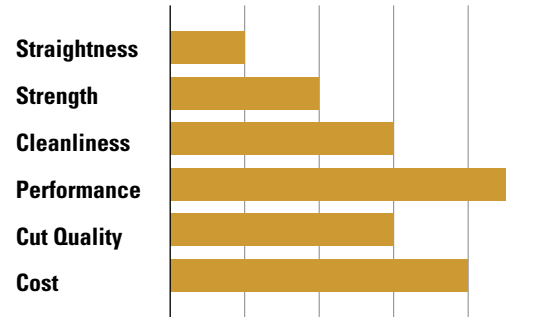
GAMMA

GAMMA X



Gamma X HIGH PERFORMANCE COATED EDM WIRE is a patented, proprietary wire made under private label for Single Source Technologies by Thermocompact in France. Gamma X HIGH PERFORMANCE COATED EDM WIRE consists of a pure copper core which is coated with an intermediate layer of beta phase brass and a proprietary outer layer of gamma phase brass. The patented proprietary gamma phase coating is a discontinuous layer of Cu35Zn65 brass which promotes efficient cutting due to its high zinc content, tenacious bond to the core material, and flushing assist provided by the "porous" nature of the discontinuous coating. The pure copper core provides for highly efficient energy transfer to the cut. Cutting speed increases of up to 20% over traditional "X" type wires have been observed. Gamma X HIGH PERFORMANCE COATED EDM WIRE provides dramatically increased cutting speeds in nickel alloy and aerospace applications in most machine brands when compared with plain brass wire. Speed increases of up to 100% have been documented in certain titanium applications. Gamma X HIGH PERFORMANCE COATED EDM WIRE is available in a wide range of diameters, spool sizes, and spool weights.

Primarily developed and used for Charmilles machines.



Straightness

A key factor in the reliability of automatic threading. Critical for older machines, not as critical for newer machines with wire annealing capabilities. Straightness is tested at both one meter and 300mm utilizing a custom designed fixture.

Strength

Primarily a measure of the wire tensile strength. However, in the case of Compeed wire, the ability to resist breakage under extreme conditions.

Cleanliness

A combined rating with respect to powder and residual lubricant or paraffin on the surface of the wire. This property is tested in a custom designed cleanliness testing machine as well as passing the wire through an actual pre-guide, power feed and guide assembly which mimics actual machine conditions.

Performance

The cutting speed potential relative to brass wire. Machine settings optimization may be required to attain the performance potential.

Cut Quality

The measured surface finish Ra and Rz resulting from an actual rough and multiple skim test cut.

Cost

Relative to standard brass wire

Primary Usages



Aerospace



Precision Machining



Tool & Die



Molds



General Machining



Medical



Production EDM