

MIM W-Fe Injection Molding

Tungsten Alloy Injection Molding

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Technical Data: MIM W-Fe Tungsten Alloy

Product Description

MIM W-Fe (Tungsten-Iron) metal-injected sports equipment encompasses a range of precision-engineered components that enhance sporting performance and equipment durability. These components are crafted using a combination of tungsten and iron to achieve specific properties tailored to sports applications.

Typical applications of MIM W-Fe metal-injected sports equipment include:

- Golf Club Heads: MIM W-Fe manufactures golf club heads, providing exceptional weight distribution and durability and improving swing performance.
- Tennis Racket Frames: These components offer enhanced racket stability and control due to their high-density composition.
- Fishing Weights: MIM W-Fe weights are ideal for fishing applications, providing precise weight distribution for casting and sinking.



Chemical Composition

Element	Tungsten (W)	Iron (Fe)
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Composition (%)	90	10
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Physical and Mechanical

Alloys	Status	Tensile Strength	Yield Strength	Impact Strength	Hardness	Young's Modulus	Poisson's Ratio	Elongation	Density
		Mpa	Mpa	J	HRC	Gpa	Ratio	% in 25.4 mm	g/cm ³
MIM W-Fe	-	600	450	2	25	180	0.28	8	16.5

Typical Properties

MIM W-Fe metal-injected Golf Club Heads

MIM W-Fe (Tungsten-Iron) metal-injected golf club heads are precision-engineered components that have revolutionized the golfing experience. These club heads are meticulously crafted using metal injection molding techniques, blending tungsten and iron to create golf club heads with exceptional performance characteristics.

MIM W-Fe metal-injected golf club heads' high-density composition allows for precise weight distribution, enhancing the golfer's control over their swing and providing greater forgiveness on off-center hits. Secondly, the durability of W-Fe ensures that these club heads can withstand the rigors of the game, maintaining their performance over time. Additionally, their improved weight distribution increases distance and accuracy in shots.



Note

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Typical Properties

MIM-Sintered MIM W-Ni-Co Vibration Dampers



Utilizing metal-injected MIM W-Fe (Tungsten-Iron) bicycle components in sports equipment, particularly cycling, represents a significant advancement in bike technology. These components, crafted through the innovative process of metal injection molding, combine the exceptional properties of tungsten and iron to enhance the performance and durability of bicycles.

The use of MIM W-Fe bicycle components offers cyclists numerous compelling benefits. Firstly, their high-density composition ensures the components are both lightweight and robust, providing a perfect balance for cyclists seeking speed and reliability. Secondly, their robust construction makes them capable of withstanding the rigors of various terrains and weather conditions, ensuring long-lasting performance. The precision engineering through metal injection molding also results in components with minimal wear, contributing to a smoother and more efficient ride.

Metal-Injected MIM W-Fe Fishing Weights

MIM W-Fe (Tungsten-Iron) metal-injected tennis racket frames represent a technological advancement in racket design. These frames are intricately crafted using metal injection molding techniques, combining the properties of tungsten and iron to deliver superior performance to tennis enthusiasts.

The benefits of MIM W-Fe tennis racket frames are multifaceted. Firstly, their high-density composition provides excellent racket stability, allowing players to generate more powerful and controlled shots. This translates to enhanced precision and accuracy on the tennis court. Secondly, the durability of W-Fe ensures that these frames can withstand the rigors of the game, withstanding impacts and maintaining their integrity over time. Overall, MIM W-Fe tennis racket frames offer players an advantage with their stability, durability, and improved shot control, contributing to a more competitive and enjoyable tennis experience.



Metal-Injected MIM W-Fe Archery Arrow Tips



Using metal-injected MIM W-Fe (Tungsten-Iron) archery arrow tips in sports equipment, particularly in archery, is a game-changer for enthusiasts and professionals alike. These arrow tips are engineered through metal injection molding, combining the unique properties of tungsten and iron to create arrowheads that redefine precision and performance in archery.

The choice of MIM W-Fe arrow tips offers archers several compelling advantages. Firstly, their high-density composition ensures exceptional accuracy and penetration, enabling archers to achieve consistently accurate shots. Secondly, their durability and resistance to deformation make them ideal for hunting and target shooting, where arrowheads must endure challenging conditions. Additionally, their compact design enhances arrow flight stability, improving shooting performance.

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