

# Hi-Tech STRONG CUT 4000

## SOLUBLE CUTTING OIL FOR TOUGHEST OPERATION

Welcome to the world of cutting-edge machining solutions! We are pleased to introduce our flagship product, Hi-Tech Strong Cut 4000, a revolutionary cutting oil designed to optimize your machining processes. This comprehensive catalog will provide you with all the essential information about Hi-Tech Strong Cut 4000, its features, benefits, and applications.

### Description:


Hi-Tech Strong Cut 4000 is a high-performance cutting oil specifically engineered to optimize your machining operations. It sets new standards for cutting efficiency, tool life extension, and surface finish enhancement. With Hi-Tech Strong Cut 4000, you can achieve exceptional precision and productivity in your machining processes.

### Benefits:

- **Increased Productivity:** Hi-Tech Strong Cut 4000 maximizes machining efficiency, allowing for higher cutting speeds and feeds, thereby improving overall productivity.
- **Cost Savings:** With extended tool life and improved surface finish, Hi-Tech Strong Cut 4000 helps reduce tooling and finishing costs, providing significant savings in the long run.
- **Operator Safety:** The cutting oil's low misting formula ensures a safe working environment, protecting operators from potential health hazards.
- **Environmental Friendliness:** Hi-Tech Strong Cut 4000 is designed to be environment friendly, with low VOC emissions and a long fluid life, reducing waste and disposal costs.



### Key Features:

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- **Advanced Lubrication:** Hi-Tech Strong Cut 4000 offers excellent lubrication properties, reducing friction and heat generation during cutting, thereby minimizing tool wear.
  - **Enhanced Cooling:** The product's exceptional cooling capabilities dissipate heat effectively, preventing workpiece distortion and ensuring dimensional accuracy.
  - **Extended Tool Life:** By providing optimal lubrication and cooling, Hi-Tech Strong Cut 4000 significantly extends tool life, reducing downtime and maintenance costs.
  - **Superior Surface Finish:** The cutting oil's unique formulation promotes excellent chip evacuation, resulting in superior surface finishes and reduced post-machining operations.
  - **Versatile Application:** Hi-Tech Strong Cut 4000 is suitable for a wide range of machining operations, including milling, turning, drilling, and tapping, across various metal alloys.

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### Application Areas:

Hi-Tech Strong Cut 4000 is suitable for a wide range of industries including: Automotive, Aerospace, Machinery Manufacturing, Metal Fabrication, Precision Engineering, and more!. The area of application will be Sawing, turning, milling, drilling and other chip forming operations. General purpose surface, cylindrical and centreless grinding.

### Water Compatibility:

Readily forms a milky, stable emulsion in a wide variety of water qualities. Avoid water with high chloride content (above 50 parts per million) and high calcium or magnesium contents (above 500 parts per million).



Oil and Emulsion Sample

### Usage Guidelines:

To achieve optimal results with Hi-Tech Strong Cut 4000, follow the recommended usage guidelines, including application methods, concentrations, and maintenance procedures. Our technical support team is available to provide comprehensive assistance and answer any queries you may have.

The recommended concentration range for usage varies from 5% to a maximum of 20%. For general machining applications, it is advised to use a concentration between 5% and 7%. However, for heavy-duty machining, it is recommended to use a concentration above 7% and for Grinding between 3% and 5%.

### Quality Assurance:

We prioritize product quality and ensure that Hi-Tech Strong Cut 4000 adheres to the highest industry standards. Our cutting oil undergoes rigorous testing to guarantee consistent performance and customer satisfaction.

### Technical Properties:

Physical -Chemical Data	Concentrate	Emulsion 5 %
Color	Brown	Milky to Semi Translucent
Naphthenic oil	48 %	-
Chlorine Content	6 %	-
Water Content	5 %	-
Density at 20 °C	0.99 g/cm <sup>3</sup>	-
Viscosity at 40 °C	59 mm <sup>2</sup> /s	-
Flash Point	146 °C	-
pH-Value	-	9.1
Refractometer Factor	-	1
IP 287 Corrosion Test, %Bpt	-	3.0
Defoam in 50 ppm water	-	Nil (30 Seconds)

### Our Product is Free From The Following Components:

Sulphur, zinc, or phosphor type EP additives, Boron compounds, Nitrites or nitrite-releasing substances, Formaldehyde or formaldehyde-releasing substances, Amines, DCHA(Diethylene glycol hexyl ether, Diethanolamine, Nitrosamines, Silicone, Heavy metals, PCP (Pentachlorophenol), PCB (Polychlorinated biphenyls), PCT (Pentachlorothiophenol), TCDD (2,3,7,8-Tetrachlorodibenzo-p-dioxin) , Triazine biocides, Nonyl phenol & NP ethoxylates or any other dioxin-containing substances