

# TRIM® C286

## Carbide Grinding Synthetic Fluid

TRIM C286 is formulated specifically for the carbide grinding industry. This synthetic product is intended for grinding carbide, but is equally good on ceramics, cermets, chill cast alloys, and tool steels. C286 minimizes cobalt leaching while still maintaining superior cutting and non-cutting characteristics.

### Synthetics



#### Peak your performance:

*TRIM® clean-running synthetics contain little to no oil. They are typically hard-water tolerant with good corrosion protection. Plus, synthetics leave very low residue for easy cleaning. Paired with extremely low carryoff, synthetics translate to less maintenance and lower operational costs, saving you time and money.*

*Run clean and long with TRIM synthetics.*



#### Choose C286:

- Keeps super-abrasive wheels clean
- Does not attack wheel bonding systems
- Designed to carry grinding swarf to the filter but will release swarf in properly designed settling tanks
- Will not be stripped out by conventional filtration systems
- Is low foaming
- Rejects tramp oil
- Has superior sump life
- Resists cobalt leaching for improved operator safety, stronger parts, and cleaner machines
- Very low carryoff for extremely low fluid operating costs
- Easy recycling or disposal with conventional techniques and equipment

#### C286 especially for:

**Applications** — grinding of cobalt containing matrices

**Metals** — carbide and carbide coated materials

**Industries** — aerospace and tool

**C286 is free of** — boron, chlorine, formaldehyde releasers, nitrites, secondary amines, and sulfur



**Master Fluid**  
SOLUTIONS®

# TRIM<sup>®</sup> C286

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### Application Guidelines

- Not recommended in machine tools that rely on the splash of the coolant to lubricate the mechanical portions of the machine tool; e.g., older screw machines, etc.
- Not recommended on materials like magnesium or zirconium without special precautions.
- This product is a superior cleaning agent so it may "wash out" dirt and residues when a machine is first charged; a thorough cleaning of older machines is required when installing this product for the first time.
- The minimum recommended concentration is 4%.
- Concentrations in excess of 7% provide the best corrosion inhibition, tool life, and sump life.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at <https://www.masterfluids.com/na/en-us/distributors/index.php>, your District Sales Manager, or call our Tech Line at 1-800-537-3365.

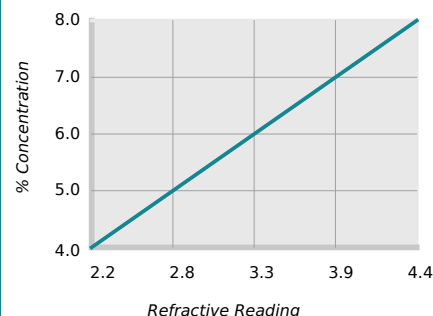
### Physical Properties Typical Data

Color (Concentrate)	Straw yellow to amber
Color (Working Solution)	Colorless
Odor (Concentrate)	Amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 216°F
pH (Concentrate as Range)	9.0 - 9.9
pH (Typical Operating as Range)	8.3 - 9.5
Coolant Refractometer Factor	1.8
Digital Titration Factor	0.0176
V.O.C. Content (ASTM E1868-10)	247 g/l

### Recommended Metalworking Concentrations

Light Duty	4.0% - 4.5%
Moderate Duty	4.5% - 6.5%
Heavy Duty	6.5% - 8.0%
Design Concentration Range	4.0% - 8.0%

### Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor  
Coolant Refractometer Factor % Brix = 1.8

### Health and Safety

Request SDS



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### Mixing Instructions

- Recommended usage concentration in water: 4.0% - 8.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.
- Use premixed coolant as makeup to improve coolant performance and reduce coolant purchases. The makeup you select should balance the water evaporation rate with the coolant carryout rate. Use our Coolant Makeup Calculator to find the best ratio for your machine: [apps.masterfluids.com/makeup/](https://apps.masterfluids.com/makeup/).
- Use mineral-free water to improve sump life and corrosion inhibition while reducing carryoff and concentrate usage.



1-gallon jug  
SKU: C286-1G  
UPC-12: 641238082996



5-gallon pail  
SKU: C286-5G  
UPC-12: 641238082989



54-gallon drum  
SKU: C286-54G  
UPC-12: 641238082972



270-gallon tote  
SKU: C286-270G  
UPC-12: 641238083016

### Additional Information

- Use Master STAGES<sup>™</sup> Whamex XT<sup>™</sup> for a quick and thorough precleaning of your machine tool and coolant system.
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
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