

# TRIM™ DRIVE G2 161C

**High-lubricity, Low-foam Semisynthetic**

TRIM DRIVE G2 161C is a specialized, halogen-free, high lubricity semisynthetic coolant formulated to meet the high precision machining and stringent chemical restrictions of the Hard Disk Drive (HDD) industry. DRIVE G2 161C has very good wetting and lubricity giving excellent surface finishes. Its ease of washability make DRIVE G2 161C an excellent choice for HDD components manufacturers. DRIVE G2 161C will run in high-pressure situations with little to no foam.

## DRIVE



*For ultimate performance:*

*DRIVE coolants deliver high-performance lubricity and ultimately lower costs. Achieve precision parts, exceptional tool life, extended sump life, assured regulatory compliance, and greater profitability with a product just right for your production. Designed to meet the rigorous demands of the HDD industry and high production, precision parts manufacturing industries, there is a TRIM Drive to answer your concerns, ramp up your production, and boost your bottom line.*



### Choose DRIVE G2 161C:

- Suitable for a wide range of materials including aluminum alloys, steels, and stainless steels
- Non-staining on aluminum alloys commonly used to produce HDD components
- Low foam even in high-pressure operations without the use of silicone antifoam
- Good hydrodynamic lubrication to perform drilling, reaming, and threading applications
- Excellent anti-weld properties without the use of either chlorinated or sulfurized EP additives
- Keep machines very clean while leaving a fluid, oily residue for ease of cleaning and reduced machine maintenance costs
- Does not require special disposal and is easily recycled
- Parts machined with DRIVE G2 161C can be washed easily and completely in aqueous washing systems

### DRIVE G2 161C especially for:

**Applications** — drilling, milling, reaming, and tapping

**Metals** — aluminum alloys, stainless steels, and steels

**Industries** — hard disk drives

**DRIVE G2 161C is free of** — chlorinated EP additives, halogens, nitrites, phenols, silicone, sulfurized EP additives, and triazine

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## Application Guidelines

- Run at a concentration between 8% to 10% for moderate machining and 12% to 15% for heavy-duty machining.
- Higher concentrations increase both hydrodynamic and EP lubrication.
- Not recommended for use on magnesium or zirconium without special precautions. However, aluminum or zinc alloy with magnesium content is generally acceptable.
- The excellent "wetting" characteristics may wash out dirt and residues when a machine is first charged.
- Check with Master Fluid Solutions for the proper cleaner product to be used before filling machine tanks with DRIVE G2 161C.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at <https://www.masterfluids.com/ap/en-ap/distributors/index.php>, your District Sales Manager, or email us at [apac-info@masterfluids.com](mailto:apac-info@masterfluids.com).

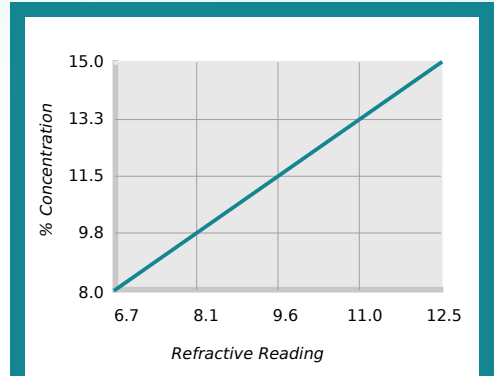
## Physical Properties Typical Data

|  |                     |
|--|---------------------|
| Color (Concentrate)                    | Yellow              |
| Color (Working Solution)               | White microemulsion |
| Odor (Concentrate)                     | Mild                |
| Form (Concentrate)                     | Liquid              |
| pH (Concentrate as Range)              | 9.8 - 10.1          |
| pH (Typical Operating as Range)        | 9.8 - 10.1          |
| Coolant Refractometer Factor           | 1.2                 |
| Titration Factor (CGF-1 Titration Kit) | 0.75                |

## Recommended Metalworking Concentrations

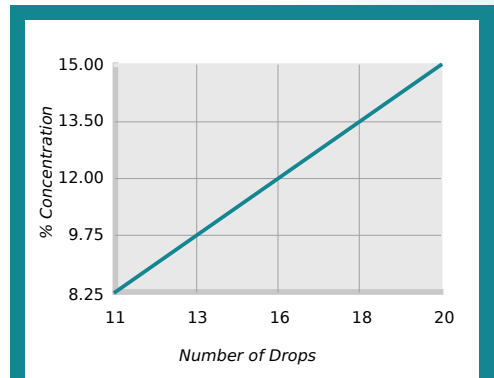
|                            |               |
|----------------------------|---------------|
| Light Duty                 | 8.0% - 9.0%   |
| Moderate Duty              | 9.0% - 11.0%  |
| Heavy Duty                 | 11.0% - 15.0% |
| Design Concentration Range | 8.0% - 15.0%  |

## Concentration by % Brix



$\% \text{ Concentration} = \text{Refractive Reading} \times \text{Refractive Factor}$   
Coolant Refractometer Factor % Brix = 1.2

## Concentration by Titration



$\% \text{ Concentration} = \text{No. of Drops} \times \text{Titration Factor}$   
Titration Factor = 0.75

## Health and Safety

Request SDS



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## Mixing Instructions

- Recommended usage concentration in water: 8.0% - 15.0%.
- 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.

## Ordering Information

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## Additional Information

- Use Master STAGES™ Whamex™ 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.
- TRIM™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- Master STAGES™ and Whamex™ are trademarks of Master Chemical Corporation d/b/a Master Fluid Solutions.
- The information herein is given in good faith and believed current as of the date of publication and should apply to the current formula version. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

[https://2trim.us/di/?i=ap\\_en-ap\\_DRIVEG2161C](https://2trim.us/di/?i=ap_en-ap_DRIVEG2161C)



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