



FUSION

HYBRID COOL CASE STUDY

Fusion Hybrid Cool™ significantly cuts cost, improves tool life, biostability, and lowers coolant consumption for a global machining manufacturer.

The Task

Hybrid Cool™ went up against a competitor with the main goal of improving tool life to lower their perishable tooling budget.

The Test

The company put *Hybrid Cool™* into their broach machine at a 12.5% dilution for a period of one month. The material machined during this time was ductile iron.

The Results

Hybrid Cool™ improvements include:

- **Decreased perishable tooling cost by 38%**
- Increased production by 22%
- **Tool life increased from 65,000 parts to 90,000 parts**
- Overall machine temperature decreased 22 – 28 degrees Fahrenheit
- **Consumption decreased** from 3 (275-gallon) totes per month to 1.67 (275-gallon) totes per month
- No tank side defoamer needed
- Operators are now able to handle tooling without gloves due to the cleanliness improvements of *Hybrid Cool™*. They previously had gummy coolant and sludge build up on tools.
- Less mist in the facilities' air due to *Hybrid Cool™*'s higher molecular weight
- No reportable VOCs (Volatile Organic Compounds) in *Hybrid Cool™*