

# EDM Fluid with Virtually No Odor

## AEROSPACE (USA)

Aerospace Fasteners

Castrol Ilocut<sup>®</sup> EDM 200

**Key Benefits: Low odor, long life**



### THE SITUATION

A major producer of aerospace fasteners was experiencing high odors and short life with their EDM machining fluid. The odor was offensive to operators, and the fluid had to be changed regularly due to rapid color change (oil oxidation).

### BEFORE

- Low price, conventional EDM fluid
- High, offensive odors
- Rapid color change leading to frequent oil changes
- Poor operator acceptance

### AFTER

- Castrol Ilocut EDM 200
- Dramatically lower odor
- Oil life greatly extended (up to 4 times longer)
- High operator acceptance

### THE SOLUTION

- The customer was in need of an improved EDM fluid and began evaluating fluids.
- Castrol developed an EDM fluid to meet their needs including the use of the latest technology in low odor base fluid and anti-oxidants for long life.
- The result was a dramatic reduction in the odor and significant reduction in the frequency of oil changes.
- Operators greatly approve of the new fluid as the odor is almost undetectable.

- **Very low odor**
- **Long oil life**
- **High approval from operators**

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## RECOMMENDATIONS

The EDM department in this facility consists of 25 sinker-type Agie EDM machines (Mondo Star 20 and Agietron Advance models) producing sealant & locating grooves in aerospace fasteners made of a variety of metals including stainless, titanium, Inconel and Waspaloy.

The odor from this large number of machines with the previous fluid was quite offensive. Now, someone can walk past the EDM area without realizing it since the odor is so low. The color change in the previous oil was due to a fast oxidation rate. Ilocut EDM 200 was formulated with a base oil that is highly resistant to oxidation along with an anti-oxidant additive for even longer life.

*Typical  
aerospace  
fasteners*



## CONCLUSION

Overall, the customer was extremely pleased with the improvement in their EDM fluid. The working environment is much more suitable for plant personnel with less time, effort, and cost spent on fluid changes.

*Agie EDM Machine*



## OTHER POTENTIAL APPLICATIONS

Castrol Ilocut EDM 200 is a long life EDM fluid with extremely low odor. It is suitable for all EDM operations where extended oil life and high operator acceptance is desired.

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