

Alusol AU 70 Eliminates Odors & Improves Finish

MACHINERY MANUFACTURING (USA)

Valve Manufacturing

Castrol Alusol® AU 70

Improved finish on all metals



THE SITUATION

An East Coast ball valve manufacturer was running a chlorinated soluble oil coolant. The operators complained of the odors and had occasional dermatitis from working with the coolant. In addition, they experienced poor finishes on some of the metal types in use.

BEFORE

- Soluble oil coolant from an east coast producer
- Chlorine containing coolant
- Bad odor complaints from the operators
- Poor finish on some metals

AFTER

- Alusol AU 70, high performance semi-synthetic
- No chlorine
- Eliminated bad odors
- Good finish on all metals

THE SOLUTION

- The valves are made of many different metals including Steel, Stainless Steel, Titanium, Inconel, Hastelloy, Stellite, Aluminum and Brass.
- The machining operations include milling, drilling, turning, tapping and grinding.
- The Alusol AU 70 works well on the wide variety of metals and operations, where the previous coolant struggled to achieve good finish on the more difficult types.
- The cause of the odor from the previous coolant was believed to be from rancidity. The Alusol AU 70 has a very good bio-resistant package, thus eliminating the odors.
- Alusol AU 70 produces excellent surface finishes on the metals being machined.

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RECOMMENDATIONS

Alusol AU 70 is a high performance coolant that will eliminate bad odors from rancid coolant. Operating in the 6 to 8% range will keep the biological growth that produces odors to a minimum while maintaining excellent machining performance.

CONCLUSION

The Alusol AU 70 is a good choice for multi-metal operations. It will perform well on the most difficult tasks and produce an excellent finish on most alloys.

AU 70 achieves these results without the use of chlorine or other safety-sensitive chemicals.



“We had real bad odor issues with our previous coolant. The Alusol AU 70 eliminated those odors and our operators love it.”

– Main Operator

Ball Valve Machining



OTHER POTENTIAL APPLICATIONS

Alusol AU 70 works well on multi-metal and multi-machining operations. It provides long sump life in individual and central coolant systems while maintaining low odors. In addition, it meets the most stringent health & safety requirements.