

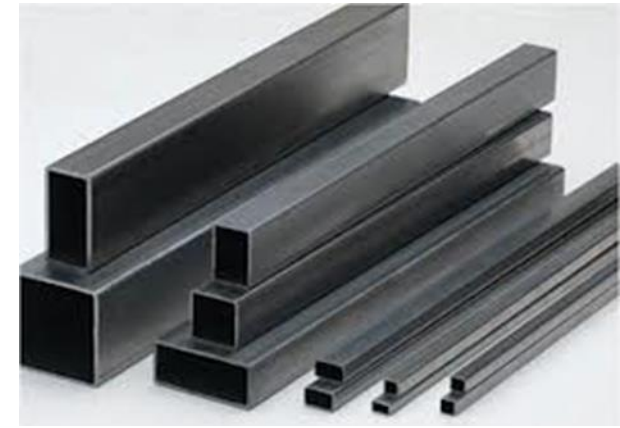
# Castrol Hysol MB 10 Provides

## Lower Concentration and Reduced Usage with No Corrosion

### METALS (USA)

Tube Manufacturing  
Castrol Hysol® MB 10

**ANNUAL SAVINGS: \$65,727**



#### THE SITUATION

A major North American structural tube mill was having issues with their tube mill coolant. This facility requires a high level of corrosion protection from the tube mill coolant. Most of the tube produced does not get subsequent corrosion inhibitor applied.

The tube mill coolant is required to provide 45 to 60 days of corrosion protection for stored tubing.

#### BEFORE

- Competitor H's semi-synthetic fluid in use
- Concentration of 10 - 12%
- Rust occurrence common
- Occasional biological issues

#### AFTER

- Castrol Hysol MB 10 semi-synthetic coolant
- Concentration of 6 - 7%
- No occurrences of rust
- No biological issues
- Good operator acceptance

#### THE SOLUTION

- A semi-synthetic coolant is required in order to achieve the corrosion protection needed by this customer.
- Hysol MB 10 was tested in the lab for cast iron chip break verses competitor H's coolant.
- Hysol MB 10 break point for rust is 3% in plant water verses 8% for competitor H's coolant.
- This allowed for reduced concentration in use resulting in much less coolant usage.
- No incidences of corrosion have been reported since the conversion.
- No biological issues have been seen on weekly samples due to the excellent resistance of Hysol MB 10.

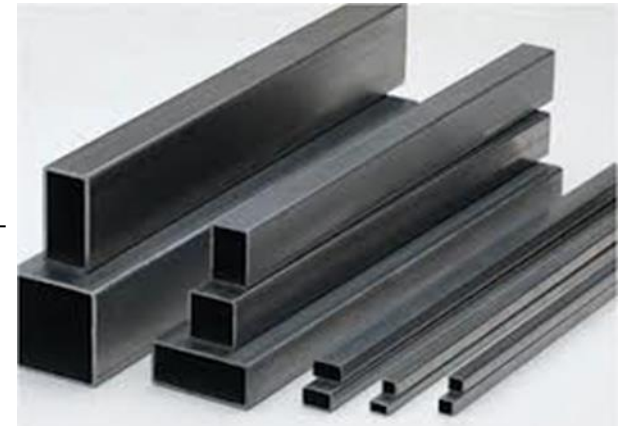
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## RECOMMENDATIONS

Hysol MB 10 can be used in tube mills processing ferrous and coated metals. Castrol can assist in establishing a routine sampling program which is crucial to ensuring the coolant is kept in optimum operating condition. The Hysol MB 10 will provide excellent corrosion inhibition to stored tubing.

## CONCLUSION

The Hysol MB 10 eliminated corrosion issues at this tube mill. The biological resistance ensures a long sump life for the coolant. The high detergency of the Hysol MB 10 will ensure that the rolls in the tube mill are clean of build up eliminating roll marks on the tubing.



*Typical  
end uses  
for  
structural  
steel  
tubes.*



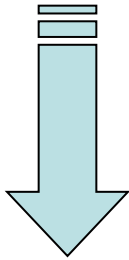
## OTHER POTENTIAL APPLICATIONS

Hysol MB 10 can be used as a general purpose cutting fluid on ferrous metals. Hysol MB 10 has excellent biological resistance and corrosion inhibition, along with providing very clean running operations.

# Castrol Hysol MB 10 Provides Lower Concentration and Reduced Usage with No Corrosion

Hysol MB 10 has rust protection  
down to 3% concentration!

This allows for a much lower in-  
use concentration.



Coupled with the low carry-off,  
MB 10 greatly lowers coolant  
usage, delivering significant cost  
savings for the customer.

