

# **CASE STUDY 54**

## (A CHLORINE AND BORON FREE SEMI-SYNTHETIC COOLANT FOR ALL TYPES OF MACHINING)



#### **CUSTOMER DETAILS:**

A leading auto component manufacturer in northern india producing customised gearing and power transmission products including internal and external precision spur and helical gears, spline gears and shafts, st bevel gears and sub-assemblies containing gear parts primarily.



#### **OBJECTIVES FOR CONDUCTING THE TRIAL**

- Need to achieve the required finish.
- No EHS issues Operator & environmental friendly.
- 3. To reduce the cost of oil.
- 4. No grinding burn marks

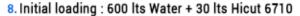


### **OPERATING / APPLICATION DETAILS:**

Machine : Micromatic
Tank capacity : 600 ltrs
Part : Gears & Shafts
Material : Alloy steel

Application : Grinding
Cycle time : 12 Minutes

7. Filtration: Magnetic Conveyor



9. Operating concentration: 5 %

10. RPM Component - 1500 RPM

11. Feed -rough feed 3.5 & finish feed .3

12. Ra Achieved: 4 Rz

13. Dressing frequency - 3 to 5 component

14. Trial evaluation - 6 months



### COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 6710

### TRIAL RESULTS







No EHS Issues observed Operator & environmental friendly.



Cost saving of more than 30% achieved as compared to blasocut 35 combi