

CASE STUDY 24

(WATER SOLUBLE CUTTING COOLANT)



CUSTOMER DETAILS :

One of the leading manufacturer of auto parts in South India.



OBJECTIVES FOR CONDUCTING THE TRIAL

To achieve good surface finish, no burn or stain marks and no itching.



OPERATING / APPLICATION DETAILS:

1. Component: Tie rod ball pin bearings
2. Material: Steel
3. Cycle time: 30 Secs
4. Operation: Centreless Grinding
5. Machine Make: SPM
6. Machine Make: SPM
7. Tank capacity: 200 Ltrs
8. Existing Product: Competitor Product
9. Concentration: 4 ~ 5 %
10. Filtration : Magnetic roller & Paper filter



COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 560 H

TRIAL RESULTS



Emulsion stable at
High hardness water (upto 400 ppm)



Achieved Required finish – Ra: 0.8



No EHS Issues observed
(No skin Itching or Smell Issues)



No Burn or stain marks observed in finished parts