

# **CASE STUDY 85**

#### (CLEANER FOR BEARING INDUSTRY)



#### **CUSTOMER DETAILS:**

A leading manufacturer of Taper, Spherical and Cylindrical rollers. Preffered supplier to SKF, NEI, Schaeffler, NRB and Timken.



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

- To suggest a cleaner which can operate at 5°C 8°C
  To achieve RA between 7% to 15% as per
- SKF Requirement in sub zero cleaning in post washing



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

- 1. Washing machine make: Dongwoo Surfacetech (India) Pvt Ltd
- 2. Washing of Rollers: Prewashing between 5°C 8°C
- 3. Type of Washing: Spraying with nozzles
- 4. Chiller Unit: Mitsubishi make
- 5. Tank capacity: 2800 liters (post washing)
- 6. Type of Rollers: Taper and Cylindrical
- 7. Roller size: 5 mm to 21 mm
- 8. Roundness within: 0.5 µm 0.8 µm
- 9. Material grade: SAE 52100 & 100CrMnSi6-4

- 7. Trial Operation: Post washing of rollers
- 8. Pre-operation: Quenching in cold oil ISOMAX 169 in continous furance
- 9. Post Operation: Tempering
- 10. Tempered Hardness: 60 64 HRC
- 11. Water: DM Water
- 12. Concentration: 4.6%
- 13. Cycle of post washing: 6 mins
- 14. Oil Skimmer Effective
- 15. Earlier media: Plain DM water

10, Raw material imported from: Daido Steel company, Japan and Ascometal Industries, France





**PRODUCT RECOMMENDED: FEROCLEAN N 600** 

## **TRIAL RESULTS**





