

CASE STUDY 33

(SYNTHETIC GRINDING FLUID FOR ROLL GRINDING APPLICATIONS)



CUSTOMER DETAILS :

An integrated Aluminium manufacturing plant in East India having, Smelter, Pot Line, Caster & Rolling Plants



OBJECTIVES FOR CONDUCTING THE TRIAL

- To achieve better sump life
- Operator friendly – No foul smell, No skin irritation,
- No foaming issues
- To achieve overall cost benefit

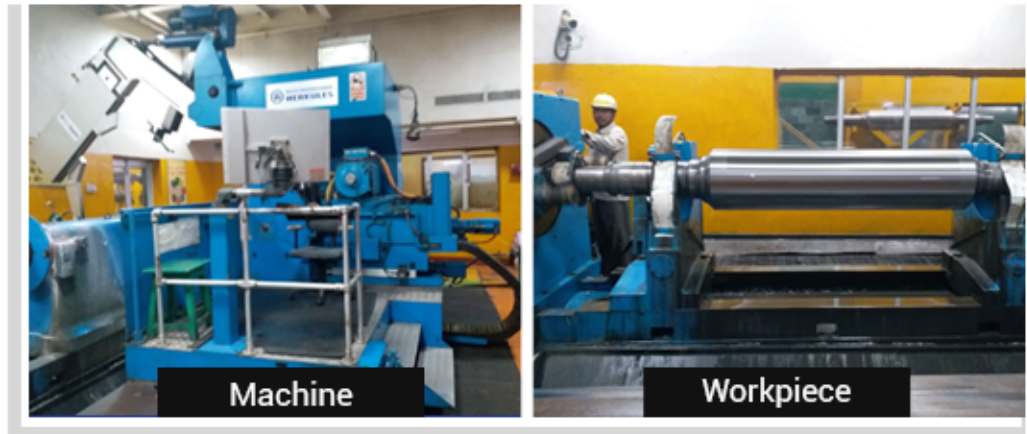


OPERATING / APPLICATION DETAILS:

1. Machine Make	: HERKULES Roll Grinding Machine	6. Tool Type	: Grinding Wheel
2. Tank capacity	: 5000 Ltrs.	7. Material of tool	: Silicon Carbide/ Aluminium Oxide
3. Type of Operation	: Grinding	8. Product in Use	: CIMTECH D14
4. Work Piece	: Forged Rolls	9. Trial Period	: 3 Months
5. Work piece material	: Chrome steel	10. Filter Type	: Bag filter + Magnetic Separator



COMPONENT VIEW



PRODUCT RECOMMENDED: HIGRIND SYN ST

TRIAL RESULTS



Sump life increased from 35 days to 85 days.



No skin irritation



No foul smell.



No foaming observed



Concentration kept similar as earlier product (2.5%)



10% Cost reduction achieved