

CASE STUDY 123

[HIQUENCH MF25LV]



CUSTOMER DETAILS:

Leading balls manufacturer for bearing industries.



OBJECTIVE FOR TRIAL:

Selecting quench oil for bearing ball



OPERATING/ APPLICATION DETAILS:

Material	- Bearing Ball
Material Grade	- AISI SAE52100
Hardening Temp.	- 850 °C/ 65 Minutes
Spec Core Hardness	- 64-67 HRc
Quenchant Temp.	- 60 °C/ 5 Min
Agitation	- 100 RPM
Hardness location	- Throughout
Quenchant Tank Capacity	- 210 litres

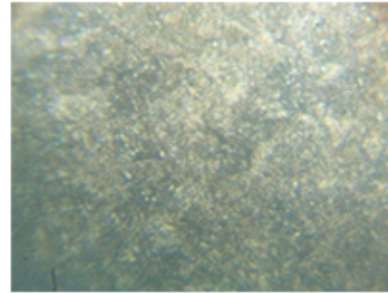
PRODUCT RECOMMENDED: HIQUENCH MF 25 LV



COMPONENT VIEW:



Bearing Ball



Microstructure :1000X
Martensite with RA<10%

Ball Size (mm)	Wt. of Charge	Wt. ratio	Oil Temp after quench	As quench Hardness
25.4 mm	1 kg	1:200	63	64-65 HRc
23.8 mm	2 kg	1:100	64	64-65 HRc

RESULTS

**TRIAL RESULT FOUND OK.
BULK ORDER RECEIVED FROM CUSTOMER.**