thyssenkrupp Electrical Steel India

testing laboratory

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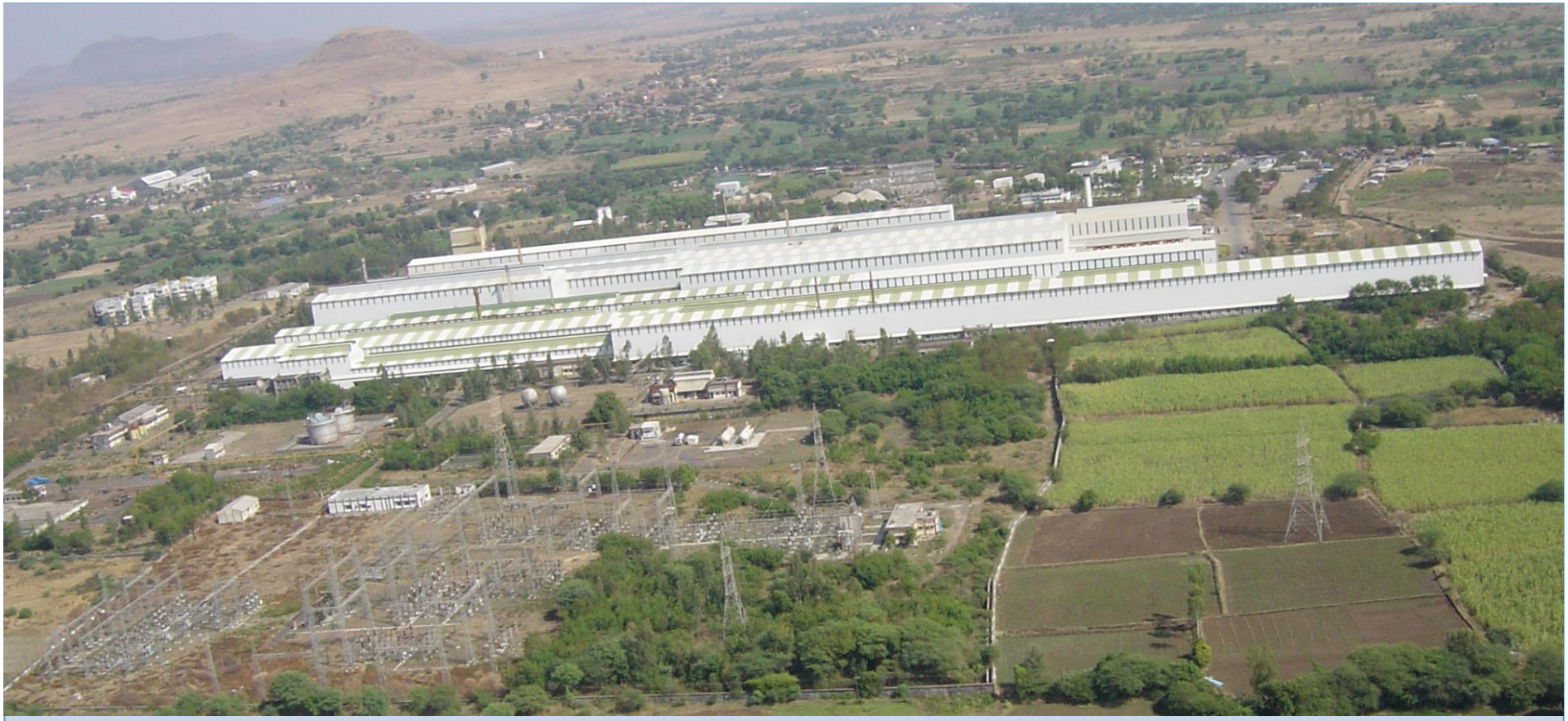
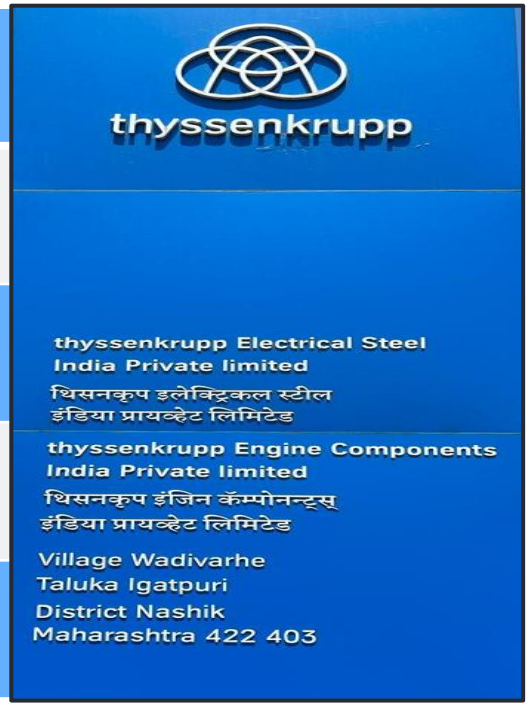
tkES, India – Strategically Located Plant in Western Region



Nashik, Maharashtra, India
Nearest Airport: Mumbai about 155 Km / Nashik about 55 Km
Nearest Railway Station: Nashik about 30 Km / Igatpuri about 20 Km

thyssenkrupp Electrical Steel India testing laboratory

- Testing Experience Of More Than 20 Years
- Wealth Of Experience In The Field Of Testing
- International Bench Marking In Field Of Testing
- Continuous Upgradation Of Our Equipments & Services
- Representation In Standard Bodies At National / International Level



Accredited in the field of

Electrical

thyssenkrupp Electrical Steel India testing laboratory

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-8228

Issue Date: 23/11/2021 Valid Until: 22/11/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

Electrical Testing

- Core Loss Measurement
- A.C. Magnetisation
- Permeability
- Anisotropy
- Aging test
- Coating Thickness
- Insulation resistivity
- Stacking Factor
- Coating Adherence
- Thermal Effect on coating
- Resistance to Solvents & Oils
- Sheet Thickness
- Ductility

thyssenkrupp Electrical Steel India testing laboratory *Accreditation & Certification*

- Ensures testing in accordance with National & International standards.
- Enhances Customer confidence and Satisfaction.
- National & International acceptability of test results.
- Provides Confidence
- Ensures Independence
- Ensures Repeatability and Reproducibility

thyssenkrupp Electrical Steel India testing laboratory *Sample Information*

Test	Sample Thickness (mm)	Minimum Nos. Required	Sample Dimension (mm)
Magnetic Test by Epstein Method	> 0.65 < 2.00	16	*T x 30 x 305 (minimum weight must be greater than 400gms)
	> 0.35 < 0.65	24	
	> 0.20 < 0.35	32	
Magnetic Test by Single Sheet Method	0.20-1.00	1	T X 500 X 500
Ductility	T	10**	T X 30 X 280/305
Insulation & Coating test	T	05	T X 100 X 250
Stacking Factor	T	> 1 kg	T X 30 X 305
Resistance to Solvents and Oil	T	2	T X 30 X 125
Resistance to Heat	T	12	T X 30 X 125

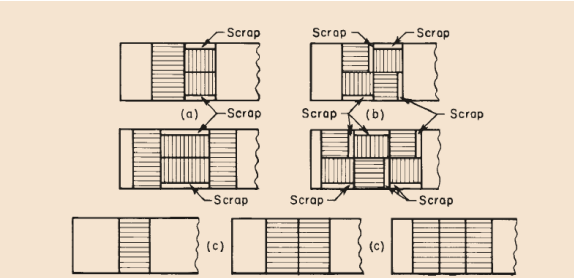
*Note : ** For CRGO – 10 samples in rolling direction*

For CRNO – 5 samples in Rolling direction and 5 in transverse direction

** T – Thickness of material*

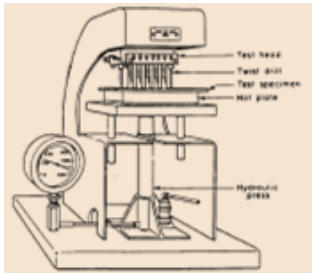
thyssenkrupp Electrical Steel India testing laboratory *Sample recommendation*

- In case of Non-Oriented half of the samples in the rolling direction and other half in the Transverse direction.
- In case of Grain Oriented all samples are in rolling direction
- Samples are always needed in multiple of 4 for Epstein Testing .
- Care should be practiced to exclude any bent, twisted, dented, highly burred, or improperly sheared strips from the test specimen.
- Samples should be drawn from OD of coil , discarding 2 wraps.
- Insulation resistivity : Width and length of a specimen strip shall be greater than the width and length respectively of the assembly of contacts.



Sampling recommendation for Epstein

Sampling recommendation for Insulation resistivity



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thyssenkrupp Electrical Steel India testing laboratory - Customers

Banmore Electricals Private Limited	K-Sambhav Powertronics
Bill Energy System	Marsons Energy
C G Power, A Nagar	PITTI Laminations Ltd,Hydrabad
C G Power Malanpur	Pradeep Transcore Pvt Ltd
C G Power Mandideep	Precision Stampings
C G Power, Mumbai	SIEMENS Ltd, Navi Mumbai
Emco Ltd.	SkipperSeil Limited
Esennar	TESLA Transformers, Bhopal
GE T & D (Alstom)	TOSHIBA Transmission and Distributions
IMP Powers Ltd.	Transformer & Rectifiers
Jaybee Laminations	Trinity Transformers
JFE Shaoji	Urja Techniques(I)Pvt Ltd.
Kanohar Electricals-Meerut	Schneider Electric
Kryfs Power Components Ltd, Silvassa	

Thank you
for your kind attention…..

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