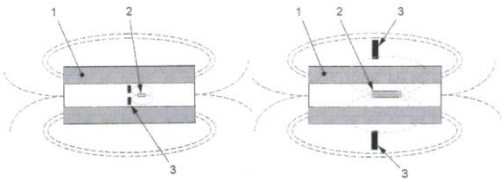
10 REASONS WHY KOERZIMAT for new IEC 60404-7

FOERSTER proof.

Coercivity measurement (up to 160 kA/m) in an open magnetic circuit

In Jan 2019 , IEC 60404-7 standard 2nd edition replaced the old from 1982

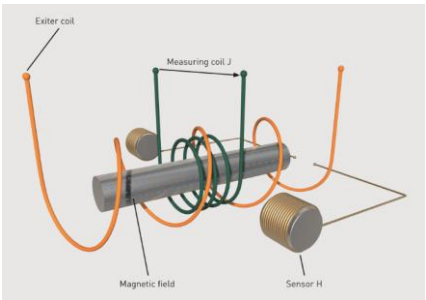
KOERZIMAT® Measuring coercivity since 1950

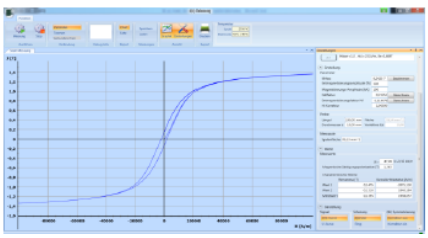


Method A b) **Method B**

1-Coil, 2-Specimen and 3-Differential fluxgate probe

J(H) Extension Module





New IEC 60404-7 2nd edition related

- VSM has been excluded from the normative part of the revised standard
- Hall sensor is no more accepted for complex shape other than ellipsoid type specimen i.e., fluxgate sensor is a must to measure integrated value of complex shape and/or module specimen (Method B)
- Instruments without magnetic shielding to compensate disturbing magnetic fields (ex. earth's magnetic field) no more conforms to standard
- New edition additionally requests a compensation calculation of the magnetic shielding
- The standard explicitly prescribes the procedure of reducing eddy-currents impact on HcJ value including reduction of magnetization amplitude and increase of magnetization time.
- KOERZIMAT Internal Probe has been included in standard, Method A b) for small specimens with low stray flux (special alloys, cemented carbide etc.)

JH Extension Module realizes Hysteresis at low cost

- Industrial standard has been toroidal specimen and need to prepare expensive toroidal specimen. Simple round bar can be used now for hysteresis measurement by KOERIMAT.
- Realize several times lower investment cost to replace expensive conventional BH loop tracing system. Shortcomings of toroidal specimen are neutralized.

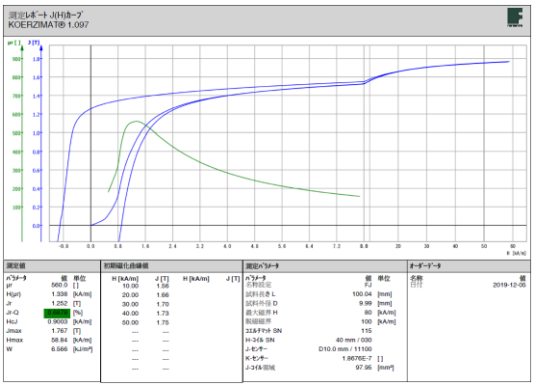
KOERZIMAT's original strength

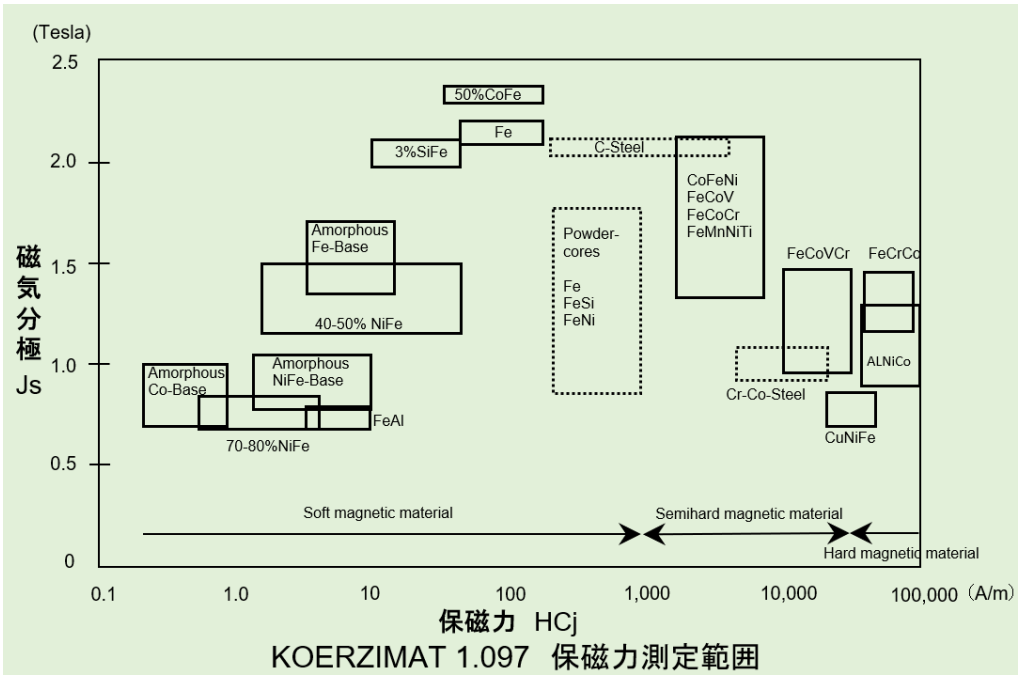
- Quick & easy, requiring no specimen preparation, measurement realize high throughput in quality control of production, university, research lab and service lab use etc.
- High power design realized larger uniform magnetic field space and enables integral measurement of assembled / module parts.

Coercive Field Strength, J(H) Hysteresis & Permeability, Magnetic Saturation
KOERZIMAT®1.097 HCJ

Abundant applications and installed base

- **Inspection of magnetic properties for soft magnetic materials to semi-hard magnetic materials (Plate / bar / thin film / powder / powder metallurgy / sintered metal etc.)**
- **Quality control of soft magnetic materials to semi-hard magnetic components (Solenoid valve / electrical motor components/ magnetic head / relay / transformer / watch, etc.)**
- **Investigation of magnetic effects of materials in manufacturing process (Degree of heat treatment / plating / polishing / pressing / cutting, etc.)**
- **Coercivity measurement of powder metal parts (cemented carbides, iron sinter components) and laminated electromagnetic materials**





KOERZIMAT 1.097 保磁力測定範囲

● **Key Specifications:**
Coercive force measurement range (auto range 0 to 100kA / m) / coercive force measurement time (fix 3 seconds) / magnetization time (1 to 40 seconds, adjustable) / HCJ measurement error (less than ± 1% of measured value) / coil Inner diameter (40mm, 60mm) / Maximum magnetizing magnetic field strength 450kA / m / 6-16mm round bar specimen / Permeability measurement range μr 100–2500

FOERSTER Japan Limited

Contact us: http://www.foerster.co.jp/inquiry_en.html e-mail: marketing@foerster.co.jp

Tokyo (HQ)	6F, Koizumi Building 1-29-1 Nishi-Gotanda, Shinagawa-ku, Tokyo 141-0031	TEL:03-6862-7451
Osaka	5-6-2 Mitejima, Nishiyodogawa-ku, Osaka City, Osaka 555-0012	TEL:06-6476-5123
Nagoya	1-18-24-7F, Nishiki Naka-ku, Nagoya City, Aichi 460-0003	TEL:052-203-0631

UKAS QUALITY MANAGEMENT 091-A

ISO 9001

Forster's equipment manufacturing plant is ISO9001 and ISO14001 certified