

TODA KOGYO ASIA (THAILAND) COMPANY LIMITED Profile

未来を支える粒子になる。



Company Profile

Main Business : Manufacture and sale of ferrite compounds,
Import and sale of iron oxide pigments 「ITC」

Capital : 205,200,000 THB

MD : Dr.Yasuhiko Fujii

Established : 18th April 2016

employees : 25 people

Address : 73 Moo 9, Rojana Industrial Park, Tambol Thanu, Amphur U-Thai ,
Ayutthaya 13210

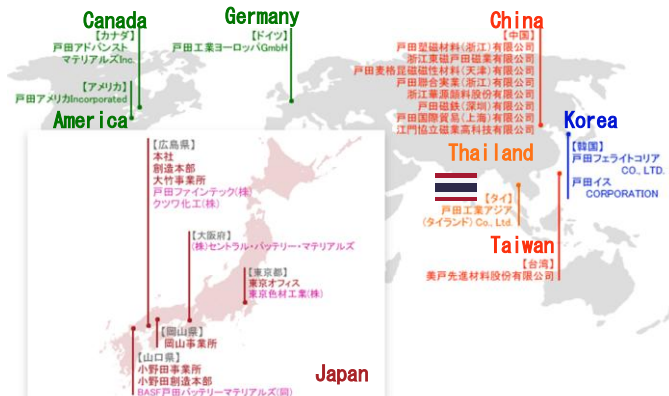
Phone number : +66(0)3535 2336-8

E-mail : sales@tkat.co.th



Toda Kogyo Group and overseas bases

- Head Office : Hiroshima
- Sales Office : Minato-ku, Tokyo; Düsseldorf, Germany; Shanghai, China ; Gyeonggi-do, Korea
- R&D Center : Otake, Hiroshima; Sanyo-Onoda, Yamaguchi
- Plant(Domestic) : Sanyo-Onoda, Yamaguchi; Otake, Hiroshima; Kita-ku, Okayama; Itabashi-ku, Tokyo; Iwaki, Fukushima
- Plant(Overseas) : 5 locations around Zhejiang Province, China; Gangwon-Do, Korea; Taoyuan, Taiwan; Ayutthaya, Thailand; Sarnia, Canada



Main Business



Ferrite compounds

Produced in Thailand → Sales
Import from another base → Sales



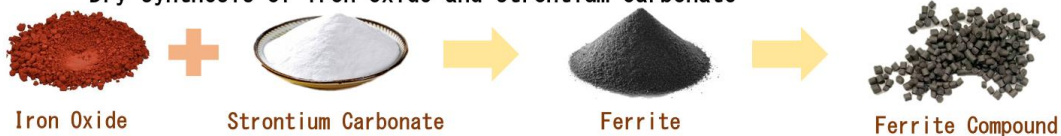
Iron oxide pigments and others

Import from another base → Sales

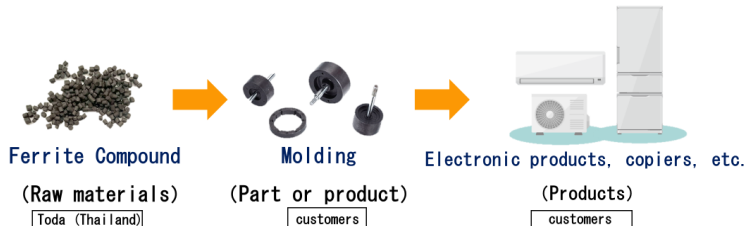


Product Information and Process Flow (Ferrite Compound)

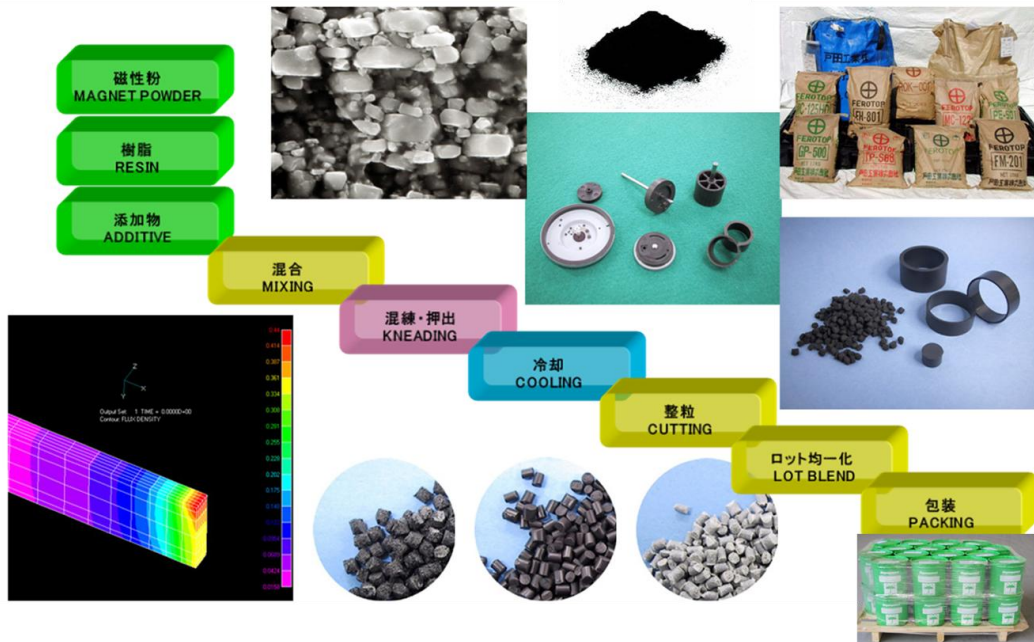
- Ferrite**
- were invented in Japan in 1930, a magnetic material raised in Japan
 - Magnetic materials that greatly contribute to electrical and electronic equipment such as televisions and personal computers
 - Dry synthesis of iron oxide and strontium carbonate



Process Flow from manufacturing raw material to product of Ferrite compound



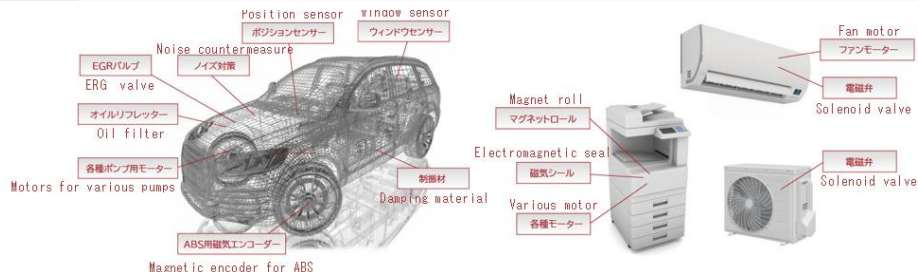
Manufacturing flow of injection molding magnetic compound



Product Information · Quality characteristic table (Ferrite Compound)

Resin	Model	Application	Magnetic property				Physical property			Remark
			Br (G)	bHc (Oe)	iHc (Oe)	BH(max)	Density (g/cm ³)	MFR		
						(M.g.Oe)		(g/10min)	Condition	
PA6	TP-S68	Car Speedometer	2780-2930	2070-2470	2440-2940	1.90-2.10	3.67-3.80	50-80	270C°/10 kg	
	TP-S68G	Various Motors	2780-2930	2070-2470	2450-2940	1.90-2.10	3.67-3.80	50-80	270C°/10 kg	
	TP-S68NT	Various Motors	2730-2880	2000-2470	2350-3050	1.80-2.00	3.64-3.77	50-80	270C°/10 kg	
PA12	TP-A27E(P2A)	Air Conditioner motor	2730-2830	2120-2420	2720-3120	1.80-2.00	3.60-3.70	40-80	270C°/10 kg	
	TP-A27E(P2A)ND	Air Conditioner motor	2730-2830	2120-2420	2720-3120	1.80-2.00	3.60-3.70	50-90	270C°/10 kg	
	TP-A27E(P2A)ND2	Air Conditioner motor	2760-2860	2230-2350	2800-3200	1.80-2.00	3.60-3.70	50-90	270C°/10 kg	
	TP-W27N	Air Conditioner motor	2830-2980	2350-2750	3100-3500	1.98-2.22	3.68-3.78	50-120	270C°/10 kg	
	TP-T27D	Air Conditioner motor	2830-2930	2220-2600	2715-3215	1.90-2.15	3.58-3.68	70-130	270C°/10 kg	
	TP-H25NK	Various Motors	2730-2830	2220-2720	2700-3300	1.80-2.00	3.53-3.63	80-220	270C°/10 kg	
EEA	TP-H98V	Copier mug roll	>2500	-	2700-3200	-	3.83-3.90	26-331.5	(N.m)	Melt Viscosity
PPS	TP-S76	Electric tool motors	2640-2760	2120-2520	2770-3270	1.72-1.87	3.60-3.70	90-200	330C°/10 kg	
PPS (Nd)	TRP-M760	Actuator	5000-5600	4100-4900	10000-12000	5.40-6.40	5.12-5.32	30-130	310C°/10 kg	

Examples of adoption



Product Information • Pigment

We manufacture pigments at our bases in Japan,
and offer a wide range of grades and variations of pigments to the world.

 Toda Kogyo Corp.



Flow of pigment

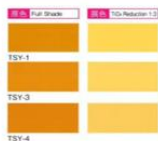


Example of usage

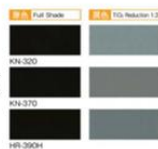
Red



Yellow



Black



Product Information • Quality characteristic table



Toda Kogyo Corp.

Type	Model	FE ₂ O ₃ (%)	pH- Value	Res. On 325 Mesh (%)	Moisture (%)	Oil Absorption (ml/100g)
Iron Oxide Red	580R	98.0 min	5-7	0.10 max	0.5 max	13-18
Iron Oxide Black	KN-320	96.0 min	9-10	0.05 max	0.8 max	26-30
Iron Oxide Yellow	TSY-1	86.0 min	5-7	0.10 max	1.0 max	30-38

Product Information • Quality characteristic table for cosmetics

TODA KOGYO CORP.

Black Iron oxide for cosmetics

Brand	BC-series
Color	Black
Chemical formula	Fe_3O_4
Shape	Spherical, Octahedral
INCI name	Iron Oxides
IN number	77499
IN name	Pigment Black 11
CAS RN®	1317-61-9
EINECS	235-442-5

Brand	BC-335	BC-340	E-172
Tapped density	g/ml	1 ± 0.1	1 ± 0.1
PH-value	-	6~8	6~8
Conductivity	μS/cm	≦ 100	≦ 100
Compared with Std	ΔE*	≦ 1	≦ 1
Oil absorption	ml/100g	22~30	22~30
Fe	%	≦ 68	≦ 68
As	ppm	≦ 3	≦ 3
Cd	ppm	≦ 1	≦ 1
Cr	ppm	≦ 100	≦ 100
Cu	ppm	≦ 50	≦ 50
Hg	ppm	≦ 1	≦ 1
Ni	ppm	≦ 200	≦ 200
Pb	ppm	≦ 10	≦ 10
Zn	ppm	≦ 100	≦ 100

Color

※ Actual product may vary

	Mass Tone	Tint Tone
BC-335		
BC-340		

Red Iron oxide for cosmetics

Brand	RC-series
Color	Red
Chemical formula	$\alpha\text{-Fe}_2\text{O}_3$
Shape	Granular
INCI name	Iron Oxides
IN number	77491
IN name	Pigment Red 101
CAS RN®	1309-37-1
EINECS	215-168-2

Brand	RC-110	RC-120	E-172
Tapped density	g/ml	Yellowish	Reddish
PH-value	-	1 ± 0.1	1 ± 0.1
Conductivity	μS/cm	6~8	6~8
Compared with Std	ΔE*	≦ 100	≦ 100
Oil absorption	ml/100g	≦ 1	≦ 1
Fe	%	15~20	15~20
As	ppm	≦ 68	≦ 68
Cd	ppm	≦ 3	≦ 3
Cr	ppm	≦ 1	≦ 1
Cu	ppm	≦ 100	≦ 100
Hg	ppm	≦ 50	≦ 50
Ni	ppm	≦ 1	≦ 1
Pb	ppm	≦ 200	≦ 200
Zn	ppm	≦ 10	≦ 10
	ppm	≦ 100	≦ 100

Color

※ Actual product may vary.

	Mass Tone	Tint Tone
RC-110		
RC-120		

Yellow Iron oxide for cosmetics

Brand	YC-series
Color	Yellow
Chemical formula	$\alpha\text{-FeOOH}$
Shape	Acicular
INCI name	Iron Oxides
IN number	77492
IN name	Pigment Yellow 43
CAS RN®	51274-00-1
EINECS	257-098-5

Brand	YC-15	YC-20	E-172
Tapped density	g/ml	Reddish	Bluish
PH-value	-	0.3 ± 0.1	0.4 ± 0.1
Conductivity	μS/cm	6~8	6~8
Compared with Std	ΔE*	≦ 100	≦ 100
Oil absorption	ml/100g	≦ 1	≦ 1
Fe	%	25~35	25~35
As	ppm	≦ 60	≦ 60
Cd	ppm	≦ 3	≦ 3
Cr	ppm	≦ 1	≦ 1
Cu	ppm	≦ 100	≦ 100
Hg	ppm	≦ 50	≦ 50
Ni	ppm	≦ 1	≦ 1
Pb	ppm	≦ 200	≦ 200
Zn	ppm	≦ 10	≦ 10
	ppm	≦ 100	≦ 100

Color

※ Actual product may vary.

	Mass Tone	Tint Tone
YC-15		
YC-20		

Other product information

Lithium-ion secondary battery

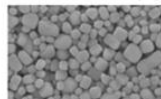
正極材料*



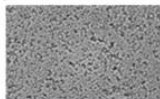
*BASF 株式会社 バッテリー・マテリアルズ 会 社 の 製 品

Multilayer chip capacitor

チタン酸バリウム



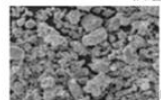
誘電体層用



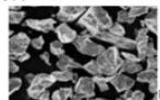
電極層用

Inductor/Reactor

軟磁性メタル材料



Fe-Si-Cr



Fe-Si-Al

Magnetic sensor/encoder

樹脂複合用磁石材料



磁石材コンパウンド



Noise suppression for wires and cables

被覆材向けノイズ抑制押出成形用コンパウンド



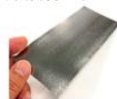
[成形品イメージ]

ノイズ抑制クランプフィルタ



Wireless charging

車載Qi規格コイルユニット&
フェライト/ナノクリスタルシート



車両/地上用Mn-Zn系フェライトプレート



Wireless Charging

Motor/Pump

磁石材コンパウンド



[成形品イメージ]

Converter/Charger

Mn-Zn系フェライトコア



Inductor

SMDパワー
インダクタ



回路集積用Ni-Zn系
フェライトプレート



[開発品]

Business Domain



Automobiles

- Battery Materials for EV
 - Magnetic Materials for Motors and Sensors
 - Transparent Iron Oxide
 - Inductors, Capacitors • Brake Materials
 - Damping Materials
-



Home Appliance/ Communication Device

- Motor Magnetic Materials for Home Appliances
 - Components for Smartphones
 - Components for Wearables
-



Copy Machine/ Printer

- Toner/Carrier Materials
 - Magnetic Materials
-



Paint

- Pigments for Automobiles and Office Machinery
 - Pigments for Construction and Building Materials
 - Rust-prevention Pigments for Ship Bottoms
-



Environment/ Housing

- Lead-Free Materials (PVC Stabilizer, Pavement)
- Combustion Catalysts
- Soil Remediation Additives

Business Domain

“Innovation to support your daily life.”

■ Device

Electronic Component Materials

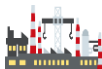
- Motor Magnet Materials for Automobiles/ Home Appliances
- Magnet Materials for Sensors
- Inductors/Capacitors



■ Ecology

Environmentally Functional Materials

- Lead-Free Materials (PVC Stabilizer, Pavement)
- Combustion Catalysts
- Soil Remediation Additives



■ Battery

Battery Materials

- Battery Materials for EV



■ EMC

Electromagnetic Compatibility Solutions

- Components for Smartphones
- Components for Wearables
- Electromagnetic Wave Absorption Materials



■ Device

Magnetic Storage Materials

- Digital Recording Materials for Storage Media used with Computers
- Storage Materials for Magnetic Cards



■ Imaging

Electronic Printing Materials

- Toners for Black & White Printers
- Carriers for Color Copy Machines
- Magnet Materials for Printer/ Copy Machines



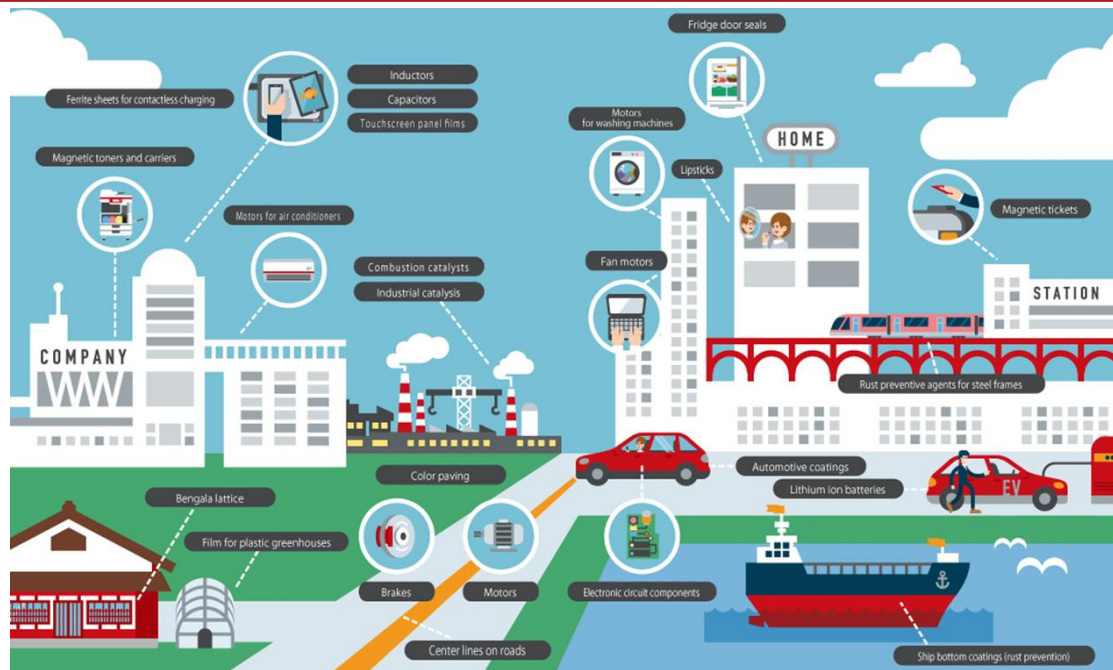
■ Color

Pigments

- Pigments for Automobiles and Office Machineries
- Pigments for Construction and building Materials
- Rust-prevention Pigments for Ship Bottoms



Familiar TODA KOGYO's Products



Certification

ISO 9001:2015

Certificate TH18/10713

The management system of

Toda Kogyo Asia (Thailand) Co., Ltd.

73 Moo 9, Rajana Industrial Park, Tambol Thanu, Amphur U-Thai, Ayutthaya 13210, Thailand
has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities
The Manufacture of Fertilis Compound,
Trading of Fertilis Compound and Pigment.



This certificate is valid from 05 January 2024 until 05 January 2027 and remains valid subject to satisfactory surveillance audits.
Issue 4. Certified since 05 January 2018

Jonathan H. Hall

Authorised by
Jonathan Hall
Global Impact Certification Services
SGS United Kingdom Ltd
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t +44 (0)151 350-6555 - www.sgs.com



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ISO 14001:2015

Certificate TH18/11583

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For the following activities
The Manufacture of Fertilis Compound,
Trading of Fertilis Compound and Pigment.



This certificate is valid from 27 November 2024 until 26 November 2027 and remains valid subject to satisfactory surveillance audits.
Issue 3. Certified since 27 November 2018

L. Moran

Authorised by
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Business Manager
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Rosemore Business Park, Ellesmere Port, Cheshire, CH63 3DN, UK
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TODA KOGYO ASIA (THAILAND)

Factory map



We transform the potential of fine particles into
new possibilities for our world.



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