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High Quality Magnetic Pigments

- ✓ **Cobalt Magentities**
- ✓ **Gamma Iron Oxide**
- ✓ **Surface treated Gamma Iron Oxides**
- ✓ **Cobalt Ferrites**
- ✓ **Acicular Magnetites & Acicular**
- ✓ **Black Magnetic Pigments**
- ✓ **Recordable Barium Hexaferrite**



Cobalt Magnetites

	HDM-S-7001	HDM-S-7041	HDM-S-7051	HDM-S-7061	HDM-S-7111
Hc (BH) - Oe*	708	700	715	670	655
Br - Gauss*	2585	2555	2570	2570	---
Bm - Gauss*	4625	4565	4660	4760	---
Hc(VSM) - Oe*	685	670	695	640	---
Sigma-r - emu/g**	36.0	35.3	35.7	35.5	35.0
Sigma-m - emu/g**	84.4	84.0	85.1	84.5	85.0
Surface area - m ² /g***	29.2	32.1	31.0	24.1	29.6****
FeO - %	20.6	19.6	19.5	19.6	21.0
Tap Density – g/ml	0.7	0.7	0.8	0.8	0.8
Water Soluble Salts - %	<0.4	<0.3	<0.3	<0.3	<0.5
Loss on Drying - %	<0.5	<0.5	<0.5	<0.5	---
pH	7.9	7.8	7.7	7.6	7.5
Oil Absorption – ml/50g	34.3	33.3	31.8	29.5	---
USE	A2	V,A2,T	V,A2	A2	MT

A1 = Audio Bias 1
 PA1 = Professional Bias
 FS = Film Audio Striping
 SC = Security Striping

A2 = Audio Bias 2
 V = Video
 D = Digital
 CC = Credit Card Striping

I = Magnetic Ink
 T = Toner
 MR = MICR Ribbon
 MT = MICR Toner

* Determined by BH Meter @ 3k Gauss(p.d. 1g/ml)
 ** Determined by VSM @ 9k Gauss
 *** Determined @ AMPS, Va Elevation and Temperatures
 **** BET by Gemini 2360



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Gamma Iron Oxides

	HHO-3070	HHO-3100	HHO-3570	HHO-3580	HHO-3590	HHO-3620	HHO-3650	HD-4500	HD-4610
Hc (BH) - Oe*	290	322	385	325	345	380	410	425	410
Br - Gauss*	2200	2100	2170	2200	2100	2100	2135	2250	2135
Bm - Gauss*	4315	4165	4065	4220	4110	4125	4065	4320	4065
Hc(VSM) - Oe*	270	300	365	305	325	360	395	410	394
Sigma-r - emu/g**	23.4	23.7	26.5	24.7	24.7	25.8	28.1	28.3	28.1
Sigma-m - emu/g**	75.7	73.6	73.1	73.7	73.3	72.8	73.1	73.3	73.1
Surface area - m ² /g***	15	17.8	26.2	19.4	22.1	25.5	24.4	26.8	24.4
FeO - %	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tap Density – g/ml	0.77	0.82	0.79	0.84	0.84	0.78	0.72	0.73	0.72
Water Soluble Salts - %	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Loss on Drying - %	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
pH	2.4	2.4	2.9	2.3	2.6	2.9	3.0	3.2	4.2
Oil Absorption – ml/50g	23.7	23.9	24.9	26.9	24.8	25.5	29.8	28.8	29.8
USE	PA1	D,CC	A1	--	--	A1	A1	A1	PA1,A1

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Surface Treated Gamma Iron Oxides

	HHO-A-3101	HHO-A-3571	HHO-A-3601	HHO-A-3651
Hc (BH) - Oe*	324	385	355	410
Br - Gauss*	2130	2125	2080	2150
Bm - Gauss*	4245	4095	4100	4080
Hc(VSM) - Oe*	304	365	330	395
Sigma-r - emu/g**	23.7	26.5	25.1	28.0
Sigma-m - emu/g**	73.3	72.8	73.2	72.8
Surface area - m ² /g***	17.2	24.7	21.8	24.0
FeO - %	<0.5	<0.5	<0.5	<0.5
Tap Density – g/ml	0.88	0.81	0.84	0.73
Water Soluble Salts - %	<0.6	<0.6	<0.7	<0.7
Loss on Drying - %	<0.5	<0.5	<0.5	<0.5
pH	2.2	2.7	2.5	2.8
Oil Absorption – ml/50g	23.3	25.7	21.8	29.0
USE	D,CC	D,CC	A1,D,FS	A1

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Cobalt Ferrite

	HIEN-6050	HIEN-6060	HIEN-6070
Hc (BH) - Oe*	640	640	630
Br - Gauss*	2525	2600	2475
Bm - Gauss*	4470	4565	4315
Hc(VSM) - Oe*	605	595	572
Sigma-r - emu/g**	33.9	33.9	33.6
Sigma-m - emu/g**	80.7	80.2	81.8
Surface area - m ² /g***	26.8	26.3	29.8
FeO - %	14.5	14.6	14.7
Tap Density – g/ml	0.8	0.8	0.7
Water Soluble Salts - %	<1.0	<1.0	<1.0
Loss on Drying - %	<0.5	<0.5	<0.5
pH	4.9	4.8	5.1
Oil Absorption – ml/50g	28.7	29.1	32.8
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Acicular Magnetites & Acicular Blacks

	B-2510	B-2540	B-2550	HHO-X-3730
Hc (BH) - Oe*	410	345	355	385
Br - Gauss*	2410	2405	2450	2200
Bm - Gauss*	4835	4790	4840	4300
Hc(VSM) - Oe*	390	325	335	370
Sigma-r - emu/g**	29.1	26.2	26.8	27.5
Sigma-m - emu/g**	84.9	84.7	84.8	76.5
Surface area - m²/g***	22.5	13.4	18.8	24.5
FeO - %	28.0	22.7	21.9	7.5
Tap Density – g/ml	0.77	0.84	0.85	0.75
Water Soluble Salts - %	<1.0	<1.0	<1.0	<1.0
Loss on Drying - %	<0.5	<0.5	<0.5	<0.5
pH	5.6	4.5	4.4	4.4
Oil Absorption – ml/50g	28.2	25.7	24.0	29.5
USE	I,T,MR	I,T,MR	I,T,MR	I,SC

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Black Magnetic Pigments

		BLP-8000	BLP-8003	BLP-8004	BLP-8005	BLP-8006
Magnetic Properties 10 kOe	Saturation σ_s - emu/g	82	83	86	89	90
	Remanence σ_r - emu/g	31	31	28	20	6
	Coercivity H_c - Oe	390	390	300	230	45
Grain Size - μm	SEM (Median)	---	---	0.55	0.35	0.25
	MAX ($D_{99.99}$)	450	30	3.1	1.6	1.0
	Median (D_{50})	60	2.8	1.8	0.8	0.55



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High Quality Recordable Barium Hexaferrite

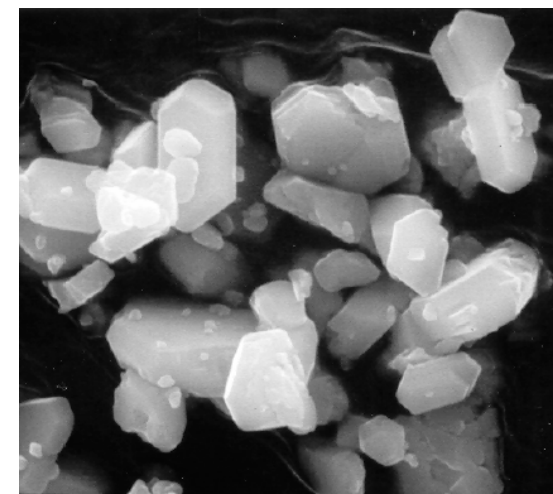


Product Range

Our ranges of High Quality Recordable Barium Ferrite's offer a range of advantages to you the customer. These include:

- ✚ Excellent dispersion properties
- ✚ Stable coercivity during the milling process
- ✚ High quality recordable properties
- ✚ Competitively Priced

	Coercivity (Oe)	Magnetic Saturation (emu/g)	Average Particle Size (μm)	Specific Surface Areas (m^2/g)
MBFC -175	1750	54	0.7	6.5
MBFC -275	2750	54	0.7	6.5
MBFC - 360	3698	53.54	0.7	6.5
MBFC - 400	4000	54	0.95	6.5



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