



Sintered Ferrite



Grade Characteristics

Grade	MMPA Equivalent	MMPA Brief	Alternates
Y10	Ceramic 1	1.0/3.3	
Y10T			
Y20			
Y22H	Ceramic 7	2.7/4.0	
Y23			
Y25			
Y25BH			
Y26H			
Y27H			



Grade	MMPA Equivalent	MMPA Brief	Alternates
Y28	Ceramic 5	3.5/2.5	
Y30			
Y30BH			
Y30H-1	Ceramic 8A	3.5/3.1	
Y30H-2	Ceramic 8B	3.4/3.9	
Y32			
Y33		4.0/2.9	
Y35	Ceramic 11		
Y35H1			
Y35H2			
Y35H3			
Y35H-4H			
Y38B			
Y38H		3.8/4.0	
Y40E		3.2/4.8	
Y40B			
Y45E			
Y45B			
DM10T			
DM20T			
DM20			
DM25			
DM33H			
DM34H			



Grade	MMPA Equivalent	MMPA Brief	Alternates
DM3845			
DM3850			
DM4036			
DM4040			
DM4129			
DM4229			
DM4240			
DM4433			
DM4045			
DM4350			
DM4545			
HF8/22			HF8/22
HF20/19			HF20/19
HF20/28			HF20/28
HF22/30			HF22/30
HF24/16			HF24/16
HF24/23			HF24/23
HF24/35			HF24/35
HF26/16			HF26/16
HF26/18			HF26/18
HF26/24			HF26/24
HF26/26			HF26/26
HF26/30			HF26/30
HF28/26			HF28/26



Grade	MMPA Equivalent	MMPA Brief	Alternates
HF28/28			HF28/28
HF30/26			HF30/26
HF32/17			HF32/17
HF32/22			HF32/22
HF32/25			HF32/25

Magnetic Characteristics

Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
Y10	200-235	2.00-2.35	125-160	1.57-2.01	2.64-3.52	210-280	6.5-9.5	0.8-1.2
Y10T	>200	>2.00	128-160	1.60-2.00	1.60-2.00	128-160	6.4-9.6	0.8-1.2
Y20	320-380	3.20-3.80	135-190	1.70-2.38	1.76-2.45	140-195	18.0-22.0	2.3-2.8
Y22H	310-360	3.10-3.60	220-250	2.77-3.14	3.52-4.02	280-320	20.0-24.0	2.5-3.0
Y23	320-370	3.20-3.70	170-190	2.14-2.38	2.39-2.89	190-230	20.0-25.5	2.5-3.2
Y25	360-400	3.60-4.00	135-170	1.70-2.14	1.76-2.51	140-200	22.5-28.0	2.8-3.5
Y25BH	360-390	3.60-3.90	176-216	2.20-2.70	2.70-2.90	215-231	23.9-27.1	3.0-3.4
Y26H	360-390	3.60-3.90	220-250	2.77-3.14	2.83-3.21	225-255	23.0-28.0	2.9-3.5
Y27H	370-400	3.70-4.00	205-250	2.58-3.14	2.64-3.21	210-255	25.0-29.0	3.1-3.7
Y28	370-400	3.70-4.00	175-210	2.20-2.64	2.26-2.77	180-220	26.0-30.0	3.3-3.8
Y30	385-405	3.85-4.05	176-224	2.20-2.80	2.30-2.84	184-226	27.5-30.5	3.45-3.95
Y30BH	380-390	3.80-3.90	223-235	2.80-2.95	2.90-3.08	231-245	27.0-30.0	3.4-3.7
Y30H-1	380-400	3.80-4.00	230-275	2.89-3.46	2.95-3.65	235-290	27.0-32.0	3.4-4.0
Y30H-2	385-415	3.95-4.15	275-300	3.46-3.77	3.90-4.21	310-335	28.5-32.5	3.5-4.0



Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
Y32	400-420	4.00-4.20	160-190	2.01-2.38	2.07-2.45	165-195	30.0-33.5	3.8-4.2
Y33	410-430	4.10-4.30	220-250	2.77-3.14	2.83-3.21	225-255	31.5-35.0	4.0-4.4
Y35	400-410	4.00-4.10	175-195	2.20-2.45	2.26-2.51	180-200	30.0-32.0	3.8-4.0
Y35H1	395-415	3.95-4.15	251-259	3.15-3.25	3.20-3.40	255-271	29.6-32.8	3.7-4.1
Y35H2	390-410	3.90-4.10	236-295	3.30-3.70	3.45-3.75	275-299	28.8-32.0	3.6-4.04
Y35H3	405-425	4.05-4.25	223-247	2.80-3.10	2.90-3.20	231-255	30.2-35.4	3.8-4.4
Y35H-4H	370-390	3.70-3.90	207-302	3.40-3.80	4.10-4.50	326-358	25.6-28.8	3.2-3.6
Y38B	410-430	4.10-4.30	251-275	3.15-3.45	3.20-3.50	255-279	31.8-35.0	4.0-4.4
Y38H	395-415	3.95-4.15	287-309	3.60-3.90	3.90-4.20	311-333	29.5-32.7	3.7-4.1
Y40E	370-390	3.70-3.90	279-301	3.50-3.80	4.80-5.20	382-414	25.6-29.4	3.2-3.6
Y40B	410-430	4.10-4.30	290-324	3.65-3.95	3.85-4.15	307-329	32.6-34.4	4.0-4.4
Y45E	420-440	4.20-4.40	318-342	4.00-4.30	4.85-5.15	386-410	33.5-36.5	4.2-4.6
Y45B	430-450	4.30-4.50	247-271	3.10-3.40	3.15-3.45	251-275	35.1-38.3	4.4-4.8
DM10T	210-230	2.10-2.30	127-159	1.60-2.00	2.65-2.95	211-235	5.6-8.8	0.7-1.1
DM20T	225-245	2.25-2.35	139-163	1.75-2.05	3.10-3.40	246-270	7.0-16.0	0.9-2.0
DM20	320-340	3.20-3.40	135-167	1.70-2.10	1.75-2.15	140-171	18.3-21.5	2.3-2.7
DM25	380-400	3.80-4.00	143-175	1.80-2.20	1.85-2.25	147-179	23.9-27.1	3.0-3.4
DM33H	390-410	3.90-4.10	239-271	3.00-3.40	3.05-3.45	243-275	27.1-30.3	3.4-3.8
DM34H	370-390	3.70-3.90	263-291	3.30-3.65	3.85-4.15	307-330	28.7-30.3	3.6-3.8
DM3845	370-390	3.70-3.90	263-299	3.30-3.75	4.30-4.75	342-378	25.5-28.7	3.2-3.6
DM3850	370-390	3.70-3.90	279-303	3.50-3.80	4.80-5.10	382-406	25.5-28.7	3.2-3.6
DM4036	395-415	3.95-4.15	263-291	3.30-3.65	3.50-3.80	279-303	28.7-31.8	3.6-4.0



Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
DM4040	390-410	3.90-4.10	271-295	3.40-3.70	3.85-4.10	307-326	29.6-32.8	3.7-4.1
DM4129	400-420	4.00-4.20	215-239	2.70-3.00	2.75-3.05	219-243	29.6-32.8	3.7-4.1
DM4229	415-435	4.15-4.35	215-239	2.70-3.00	2.75-3.05	219-243	31.2-34.4	3.9-4.3
DM4240	410-430	4.10-4.30	283-207	3.55-3.85	3.85-4.15	307-330	31.8-35.2	4.0-4.4
DM4433	430-450	4.30-4.50	247-271	3.10-3.40	3.15-3.45	251-275	35.2-38.4	4.4-4.8
DM4045	390-410	3.90-4.10	287-310	3.60-3.90	4.35-4.65	347-370	28.7-31.8	3.6-4.0
DM4350	420-440	4.20-4.40	294-326	3.70-4.10	4.85-5.15	386-410	33.4-36.6	4.2-4.6
DM4545	440-460	4.40-4.60	318-350	4.00-4.40	4.35-4.65	374-370	36.6-39.8	4.6-5.0

Thermal Characteristics

Grade	Max Operating Temp
	°C
Y10	300
Y10T	300
Y20	300
Y22H	300
Y23	300
Y25	300
Y25BH	300
Y26H	300
Y27H	300



Grade	Max Operating Temp
	°C
Y28	300
Y30	300
Y30BH	300
Y30H-1	300
Y30H-2	300
Y32	300
Y33	300
Y35	300
Y35H1	300
Y35H2	300
Y35H3	300
Y35H-4H	300
Y38B	300
Y38H	300
Y40E	300
Y40B	300
Y45E	300
Y45B	300
DM10T	300
DM20T	300
DM20	300
DM25	300



Grade	Max Operating Temp
	°C
DM33H	300
DM34H	300
DM3845	300
DM3850	300
DM4036	300
DM4040	300
DM4129	300
DM4229	300
DM4240	300
DM4433	300
DM4045	300
DM4350	300
DM4545	300



MSDS

Section 1 - Product Name

Product Name: Ceramic Magnet

Section 2 - Hazardous Ingredients

Chemical Name: Ba Fe or Sr Fe

Material/Component(s):

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m ³)
Barium Ferrite (BrFe 203)	NA	NA	5 mg/m ³
Strontium Ferrite (SrFe 203)	NA	NA	5 mg/m ³
Soluble Barium	NA	NA	0.5 mg/m ³

Section 3 - Physical Characteristics

Vapor Pressure: NA

Vapor Density: NA

Specific Gravity: 5.1

Melting Point: 2400 F

Evaporation Rate: NA

Odor: None detectable

Solubility in Water: Slight

Section 4 - Fire and Explosion Hazard Data

Flash Point: NA

FLAMMABLE LIMITS: NA

LEL: NA

UEL: NA

Extinguishing Media: NA

Special Fire Fighting Procedures: None. Material is not a fire hazard.

Unusual Fire and Explosion Hazards(s): Material will not ignite or explode



Section 5 - Reactivity Data

Stability: Stable

Conditions to Avoid: No known incompatibilities

Incompatibility (Materials to Avoid): NA

Hazardous Polymerization: Will not occur

Hazardous Decomposition or Byproducts : Will not occur. None known.

Section 6 - Health Hazard Data

Health Hazards (Acute & Chronic): No known acute or chronic health hazards. Not listed as carcinogen or potential carcinogen. Product may contain a slight amount of soluble barium over time.

Emergency and First Aid Procedures:

Procedure For	Procedure
Ingestion	Epsom or glauber salts will convert any soluble Barium to harmless sulfate

Section 7 - Precautions for Safe Handling and Use

Spill Procedure: Clean by brush or vacuum. No special precautions.

Waste Disposal Method: Observe all federal, state and local regulations when disposing this material.

Precautions to be taken in Handling and Storing: Material should be kept in dry environment. Material is brittle and may chip if not handled with care. Surface dust may form over time.

Section 8 - Control Measures

Respiratory Protection: NA

Eye Protection: Safety glasses

Skin Protection: Protective gloves desirable for long use.

Ventilation: Local exhaust

Work / Hygienic Practices: Clean after spilling as chips may develop. Clean hands after use.