



Sintered Alnico



Grade Characteristics

Grade
FLN8
FLNG12
FLNGT14
FLNGT18
FLNG28
FLNGT28
FLNGT31
FLNGT33J
FLNG34



Grade
FLNG38
FLNGT42

Magnetic Characteristics

Grade	Br	Br	Br	Hcb	Hcb	Hcb	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
FLN8	550	5.5	5500	42	0.53	530	9	1.13
FLNG12	700	7	7000	48	0.60	600	1.4	1.55
FLNGT14	570	5.7	5700	76	0.95	950	15	1.75
FLNGT18	600	6	6000	88	1.10	1100	20	2.25
FLNG28	1050	10.5	10500	46	0.58	580	28	3.50
FLNGT28	1000	10	10000	56	0.70	700	28	3.50
FLNGT31	780	7.8	7800	104	1.30	1300	33	3.90
FLNG32	780	7.8	7800	100	1.25	1250	28	3.50
FLNGT33J	650	6.5	6500	136	1.70	1700	31	4.15
FLNG34	1100	11	11000	50	0.6	630	34	4.3
FLNGT38	800	8	8000	123	1.55	1550	38	4.75
FLNG36	680	6.8	6800	136	1.70	1700	36	4.50
FLNG38	800	8	8000	120	1.50	1500	38	4.75
FLNGT42	880	8.8	8800	120	1.50	1500	42	5.30

Thermal Characteristics



Grade	Max Operating Temp	Curie Temp	Rev Temp Coeff
	°C	%/°C	Br (TC a(Br) %/°C)
FLN8	450	760	-0.022
FLNG12	450	810	-0.014
FLNGT14	450	850	-0.020
FLNGT18	450	850	-0.020
FLNG28	450	850	-0.016
FLNGT28	450	850	-0.020
FLNGT31	450	850	-0.020
FLNG32	450	850	-0.020
FLNGT33J	450	850	-0.025
FLNG34	450	850	-0.016
FLNGT38	450	850	-0.020
FLNG36	450	850	-0.020
FLNG38	450	850	-0.020
FLNGT42	450	820	-0.025



MSDS

Section 1 - Product Name

Product Name: Alnico Powder or Grinding Swarf

Section 2 - Hazardous Ingredients

Chemical Name: Aluminum

Material/Component(s):

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m ³)
Aluminum	6-13%	7429-90-5	10 mg/m ³
Iron(oxide fume)	34-56%	1309-37-1	1 mg/m ³
Copper(dust)	1-7%	7440-50-8	0.1 mg/m ³
Nickel	12-29%	7440-02-0	5 mg/m ³
Cobalt	1-40%	7440-48-4	1 mg/m ³
Titanium	0-8%	N/A	N/A
Niobium	0-2%	N/A	N/A

Section 3 - Physical Characteristics

Vapor Pressure: N/A

Vapor Density: (Air = 1) - N/A

Specific Gravity: 6.9-7.4

Melting Point: 1,600° C

Evaporation Rate: (Butyl Acetate = 1) N/A

Odor: No odor

Solubility in Water: Insoluble

Section 4 - Fire and Explosion Hazard Data

Flash Point: N/A

FLAMMABLE LIMITS: N/A



LEL: N/A

UEL: N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards(s): May occur in case of dry, fine grained dust in air.

Section 5 - Reactivity Data

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Strong acids

Section 6 - Health Hazard Data

Health Hazards (Acute & Chronic): Unknown

Emergency and First Aid Procedures:

Procedure For	Procedure
Eyes	Flush with running water for fifteen minutes, including under eyelids
Inhalation	Remove to fresh air
Skin	Brush off powder; wash well with soap and water

Section 7 - Precautions for Safe Handling and Use

Spill Procedure: Pick up powder/dust products. Prevent dusty conditions.

Waste Disposal Method: Recycle scrap metal or metal powders.

Section 8 - Control Measures

Respiratory Protection: NIOSH approved for particulate (fume, dust, mist)

Eye Protection: Protective goggles are recommended because of the materials tendency to chip and break.

Skin Protection: Protective Gloves - Cloth

Ventilation: General

Work / Hygienic Practices: Follow good industrial hygiene and housekeeping practices.