YUNSHENG MATERIAL GRADES (REV. DATE 09/05/2024)

GRADE (at 20° C)	Br		Hcj		Hcb		(BH)max		Tw
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	° C
N30	1.08-1.14	10.8-11.4	960	12	804	10.1	223-247	28-31	80
N33	1.14-1.19	11.4-11.9	960	12	843	10.6	247-271	31-34	80
N35	1.18-1.23	11.8-12.3	960	12	884	11.1	263-287	33-36	80
N38	1.23-1.28	12.3-12.8	960	12	915	11.5	287-310	36-39	80
N40	1.26-1.30	12.6-13.0	960	12	923	11.6	302-326	38-41	80
N42C	1.29-1.33	12.9-13.3	960	12	915	11.5	318-342	40-43	80
N45C	1.33-1.38	13.3-13.8	960	12	915	11.5	338-366	43-46	80
N48C	1.38-1.42	13.8-14.2	960	12	915	11.5	362-390	46-49	80
N50C	1.39-1.45	13.9-14.5	960	12	915	11.5	370-406	47-51	80
N52	1.43-1.48	14.3-14.8	960	12	875	11.0	390-422	49-53	80
N55	1.46-1.52	14.6-15.2	960	12	836	10.5	398-446	52-56	70
N58	1.49-1.55	14.9-15.5	876	11	836	10.5	422-462	53-58	70
N60	1.50-1.56	15.0-15.6	876	11	836	10.5	446-480	55-60	70
30M	1.08-1.14	10.8-11.4	1114	14	812	10.2	223-247	28-31	100
33M	1.14-1.19	11.4-11.9	1114	14	852	10.7	247-271	31-34	100
35M	1.18-1.23	11.8-12.3	1114	14	883	11.1	263-287	33-36	100
38MC	1.22-1.27	12.2-12.7	1114	14	915	11.5	287-310	36-39	100
40MC	1.26-1.30	12.6-13.0	1114	14	940	11.8	302-326	38-41	100
42MC	1.29-1.33	12.9-13.3	1114	14	964	12.1	318-342	40-43	100
45MC	1.33-1.38	13.3-13.8	1114	14	995	12.5	338-366	43-46	100
48M	1.37-1.42	13.7-14.2	1114	14	1019	12.8	358-390	45-49	100
50M	1.39-1.45	13.9-14.5	1114	14	1035	13.0	370-406	47-51	90
52M	1.42-1.48	14.2-14.8	1114	14	1035	13.0	386-422	49-53	90
55M	1.45-1.52	14.5-15.2	1035	13	971	12.2	398-446	52-56	80
30H	1.08-1.14	10.8-11.4	1353	17	820	10.3	223-247	28-31	120
33H	1.14-1.19	11.4-11.9	1353	17	860	10.8	247-271	31-34	120
35HC	1.17-1.22	11.7-12.2	1353	17	873	11.0	263-287	33-36	120
38HC	1.22-1.27	12.2-12.7	1353	17	915	11.5	287-310	36-39	120
40HC	1.26-1.30	12.6-13.0	1353	17	940	11.8	302-326	38-41	120
42HC	1.29-1.33	12.9-13.3	1353	17	964	12.1	318-342	40-43	120
45H	1.33-1.38	13.3-13.8	1353	17	1003	12.6	338-366	43-46	120
48H	1.37-1.42	13.7-14.2	1353	17	1035	13.0	358-390	45-49	110
50H	1.39-1.44	13.9-14.4	1353	17	1035	13.1	370-398	47-50	110
52H	1.42-1.47	14.2-14.7	1274	16	1035	13.5	382-414	48-52	100

YUNSHENG MATERIAL GRADES (REV. DATE 09/05/2024)

GRADE (at 20° C)	Br		Hcj		Hcb		(BH)max		Tw
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	° C
G55H	1.47-1.52	14.6-15.2	1353	17	1106	13.9	414-446	52-56	120
G57H	1.49-1.55	14.9-15.5	1353	17	1122	14.1	430-462	54-58	120
30SH	1.08-1.14	10.8-11.4	1592	20	820	10.3	223-247	28-31	150
33SH	1.14-1.19	11.4-11.9	1592	20	860	10.8	247-271	31-34	150
35SHC	1.17-1.22	11.7-12.2	1592	20	873	11.0	263-287	33-36	150
38SHC	1.22-1.27	12.2-12.7	1592	20	915	11.5	287-310	36-39	150
40SHC	1.26-1.30	12.6-13.0	1592	20	940	11.8	302-326	38-41	150
42SHC	1.29-1.33	12.9-13.3	1592	20	964	12.1	318-342	40-43	150
44SH	1.32-1.36	13.2-13.6	1592	20	995	12.5	338-366	42-46	150
45SH	1.33-1.38	13.3-13.8	1592	20	1003	12.6	342-366	43-46	150
48SH	1.37-1.42	13.7-14.2	1592	20	1035	13.0	358-390	45-49	150
50SH	1.39-1.44	13.9-14.4	1592	20	1043	13.1	366-414	46-50	150
52SH	1.42-1.47	14.2-14.7	1512	19	1075	13.5	390-422	48-52	140
G55SH	1.47-1.52	14.6-15.2	1592	20	1106	13.9	414-446	52-56	150
28UH	1.04-1.09	10.4-10.9	1990	25	788	9.9	207-231	26-29	180
30UH	1.08-1.14	10.8-11.4	1990	25	820	10.3	223-247	28-31	180
33UH	1.14-1.19	11.4-11.9	1990	25	860	10.8	247-271	31-34	180
35UH	1.18-1.23	11.8-12.3	1990	25	884	11.1	267-291	33-36	180
38UH	1.23-1.28	12.3-12.8	1990	25	923	11.6	291-314	36-39	180
40UH	1.26-1.30	12.6-13.0	1990	25	947	11.9	302-326	38-41	180
42UH	1.29-1.33	12.9-13.3	1990	25	971	12.2	318-342	40-43	170
44UH	1.33-1.36	13.3-13.6	1990	25	995	12.5	334-358	42-45	170
G45UH	1.32-1.38	13.2-13.8	1990	25	995	12.5	338-366	43-46	170
G48UH	1.36-1.42	13.6-14.2	1990	25	1027	12.9	358-390	45-49	180
G50UH	1.39-1.44	13.9-14.4	1990	25	1051	13.2	374-406	47-51	180
G52UH	1.42-1.48	14.2-14.8	1990	25	1067	13.4	390-422	49-53	180
G54UH	1.45-1.51	14.5-15.1	1990	25	1090	13.7	406-438	51-55	180
28EH	1.05-1.09	10.5-10.9	2388	30	788	9.9	207-231	26-29	200
30EH	1.08-1.14	10.8-11.4	2388	30	820	10.3	223-247	28-31	200
33EH	1.14-1.19	11.4-11.9	2388	30	860	10.8	247-271	31-34	200
35EH	1.18-1.22	11.8-12.2	2388	30	884	11.1	267-291	33-36	200
38EH	1.22-1.27	12.2-12.7	2388	30	923	11.6	287-314	36-39	200
40EH	1.25-1.30	12.5-13.0	2388	30	947	11.9	302-326	38-41	190
42EH	1.28-1.33	12.8-13.3	2308	29	971	12.2	318-342	40-43	180

YUNSHENG MATERIAL GRADES (REV· DATE 09/05/2024)

GRADE (at 20° C)	Br		Hcj		Hcb		(BH)max		Tw
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	° C
G45EH	1.32-1.38	13.2-13.8	2388	30	995	12.5	334-366	42-46	200
G48EH	1.36-1.42	13.9-14.2	2388	30	1027	12.9	358-390	45-49	200
G50EH	1.39-1.45	13.9-14.5	2388	30	1051	13.2	374-406	47-51	200
28TH	1.05-1.09	10.5-10.9	2786	35	796	10.0	207-231	26-29	240
30TH	1.08-1.14	10.8-11.4	2786	35	820	10.3	223-247	28-31	240
33TH	1.14-1.19	11.4-11.9	2786	35	860	10.8	251-275	31-34	240
35TH	1.18-1.22	11.8-12.2	2786	35	891	11.2	267-291	33-36	240
G38TH	1.22-1.27	12.2-12.7	2786	35	931	11.7	287-310	36-39	240
G40TH	1.24-1.30	12.4-13.0	2786	35	947	11.9	295-326	37-41	240
G42TH	1.27-1.33	12.7-13.3	2786	35	963	12.1	310-342	39-43	240
G45TH	1.32-1.38	13.2-13.8	2786	35	995	12.5	334-366	42-46	240

The above grades are our basic grades. We also have T and L-T series legacy grades which are derived from these basic grades,for example: N45T, 42MT, L-38SHT, L-38UHT. T and L-T series grades apply to those magnets which have low temperature coefficient and corrosion resistance requirements. The main properties of the derived grade such as Br, Hcj, Hcb and (BH)max correspond to those of basic grades. Additional performance data includes:

μ_{rec}= 1.05 Basic grade: Tc = 310℃ α Br = -0.12 %/℃ β Hcj = -0.70 %/℃

"T" grade: Tc = 330℃ α Br = -0.11 %/℃ β Hcj = -0.60 %/℃

"L-T" grade: Tc = 350℃ α Br = -0.10 %/℃ β Hcj = -0.50 %/℃

G" grades designate Grain Boundary Diffusion (GBD) grades using Yunsheng-patented technologies, without vacuum environment and reduced Heavy Rare Earth (HRE) content for Terbium (Tb) and Dysprosium (Dy).