

Magnetic Properties of Sintered Neodymium Magnets

Grade	Remanence		Coercive Force		Intrinsic Coercive Force		Maximum Energy Product		Maximum Working Temperature	Density
	Br		Hcb		Hcj		(BH)max			
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe		
N30	1.08-1.13	10.8-11.3	≥798	≥10.0	≥955	≥12	223-247	28-31	80	≥7.5
N33	1.13-1.17	11.3-11.7	≥836	≥10.5	≥955	≥12	247-271	31-34	80	≥7.5
N35	1.17-1.22	11.7-12.2	≥868	≥10.9	≥955	≥12	263-287	33-36	80	≥7.5
N38	1.22-1.25	12.2-12.5	≥899	≥11.3	≥955	≥12	287-310	36-39	80	≥7.5
N40	1.25-1.28	12.5-12.8	≥907	≥11.4	≥955	≥12	302-326	38-41	80	≥7.5
N42	1.28-1.32	12.8-13.2	≥915	≥11.5	≥955	≥12	318-342	40-43	80	≥7.5
N45	1.32-1.38	13.2-13.8	≥923	≥11.6	≥955	≥12	342-366	43-46	80	≥7.5
N48	1.38-1.42	13.8-14.2	≥923	≥11.6	≥955	≥12	366-390	46-49	80	≥7.5
N50	1.40-1.45	14.0-14.5	≥796	≥10.0	≥876	≥11	382-406	48-51	80	≥7.5
N52	1.43-1.48	14.3-14.8	≥796	≥10.0	≥876	≥11	398-422	50-53	80	≥7.5
N55	1.46-1.52	14.6-15.2	≥796	≥10.0	≥876	≥11	414-430	52-54	80	≥7.5
N35M	1.17-1.22	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	100	≥7.5
N38M	1.22-1.25	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	100	≥7.5
N40M	1.25-1.28	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	100	≥7.5
N42M	1.28-1.32	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	100	≥7.5
N45M	1.32-1.38	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	100	≥7.5
N48M	1.37-1.43	13.7-14.3	≥1027	≥12.9	≥1114	≥14	366-390	46-49	100	≥7.5
N50M	1.40-1.45	14.0-14.5	≥1033	≥13.0	≥1114	≥14	382-406	48-51	100	≥7.5
N52M	1.43-1.48	14.3-14.8	≥1050	≥13.2	≥1114	≥14	398-422	50-53	100	≥7.5
N54M	1.45-1.50	14.5-15.0	≥1051	≥13.2	≥1114	≥14	414-438	52-55	100	≥7.5
N35H	1.17-1.22	11.7-12.2	≥868	≥10.9	≥1353	≥17	263-287	33-36	120	≥7.5
N38H	1.22-1.25	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	120	≥7.5
N40H	1.25-1.28	12.5-12.8	≥923	≥11.6	≥1353	≥17	302-326	38-41	120	≥7.5
N42H	1.28-1.32	12.8-13.2	≥955	≥12.0	≥1353	≥17	318-342	40-43	120	≥7.5
N45H	1.32-1.36	13.2-13.6	≥963	≥12.1	≥1353	≥17	342-366	43-46	120	≥7.5
N48H	1.37-1.43	13.7-14.3	≥995	≥12.5	≥1353	≥17	366-390	46-49	120	≥7.5
N50H	1.40-1.45	14.0-14.5	≥1011	≥12.7	≥1353	≥17	382-406	48-51	120	≥7.5
N52H	1.43-1.48	14.3-14.8	≥1027	≥12.9	≥1353	≥17	398-422	50-53	120	≥7.5
N33SH	1.14-1.18	11.4-11.8	≥852	≥10.7	≥1592	≥20	247-279	31-35	150	≥7.5

Grade	Remanence		Coercive Force		Intrinsic Coercive Force		Maximum Energy Product		Maximum Working Temperature	Density
	Br		Hcb		Hcj		(BH)max			
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe	℃	g/cm3
N35SH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥1592	≥20	263-287	33-36	150	≥7.5
N38SH	1.22-1.25	12.2-12.5	≥907	≥11.4	≥1592	≥20	287-310	36-39	150	≥7.5
N40SH	1.25-1.28	12.5-12.8	≥939	≥11.8	≥1592	≥20	302-326	38-41	150	≥7.5
N42SH	1.28-1.32	12.8-13.2	≥987	≥12.4	≥1592	≥20	318-342	40-43	150	≥7.5
N45SH	1.32-1.38	13.2-13.8	≥1003	≥12.6	≥1592	≥20	342-366	43-46	150	≥7.5
N48SH	1.37-1.43	13.7-14.3	≥1027	≥12.9	≥1592	≥20	366-390	46-49	150	≥7.5
N50SH	1.40-1.45	14.0-14.5	≥1003	≥12.6	≥1592	≥20	382-406	48-51	150	≥7.5
N28UH	1.04-1.08	10.4-10.8	≥764	≥9.6	≥1990	≥25	207-231	26-29	180	≥7.5
N30UH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥1990	≥25	223-247	28-31	180	≥7.5
N33UH	1.13-1.17	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-271	31-34	180	≥7.5
N35UH	1.17-1.22	11.7-12.2	≥860	≥10.8	≥1990	≥25	263-287	33-36	180	≥7.5
N38UH	1.22-1.25	12.2-12.5	≥876	≥11.0	≥1990	≥25	287-310	36-39	180	≥7.5
N40UH	1.25-1.28	12.5-12.8	≥899	≥11.3	≥1990	≥25	302-326	38-41	180	≥7.5
N42UH	1.28-1.32	12.8-13.2	≥899	≥11.3	≥1990	≥25	318-342	40-43	180	≥7.5
N45UH	1.32-1.36	13.2-13.6	≥908	≥11.4	≥1990	≥25	342-366	43-46	180	≥7.5
N48UH	1.37-1.43	13.7-14.3	≥908	≥11.4	≥1990	≥25	366-390	46-49	180	≥7.5
N28EH	1.04-1.08	10.4-10.8	≥780	≥9.8	≥2388	≥30	207-231	26-29	200	≥7.5
N30EH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	200	≥7.5
N33EH	1.13-1.17	11.3-11.7	≥836	≥10.5	≥2388	≥30	247-271	31-34	200	≥7.5
N35EH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	200	≥7.5
N38EH	1.22-1.25	12.2-12.5	≥899	≥11.3	≥2388	≥30	287-310	36-39	200	≥7.5
N40EH	1.25-1.28	12.5-12.8	≥899	≥11.3	≥2388	≥30	302-326	38-41	200	≥7.5
N42EH	1.28-1.32	12.8-13.2	≥899	≥11.3	≥2388	≥30	318-342	40-43	200	≥7.5
N45EH	1.32-1.36	13.2-13.6	≥899	≥11.3	≥2388	≥30	342-366	43-46	200	≥7.5
N28AH	1.04-1.08	10.4-10.8	≥787	≥9.9	≥2786	≥35	207-231	26-29	230	≥7.5
N30AH	1.08-1.13	10.8-11.3	≥819	≥10.3	≥2786	≥35	223-247	28-31	230	≥7.5
N33AH	1.13-1.17	11.3-11.7	≥843	≥10.6	≥2786	≥35	247-271	31-34	230	≥7.5
N35AH	1.17-1.22	11.7-12.2	≥876	≥11.0	≥2786	≥35	263-287	33-36	230	≥7.5
N38AH	1.22-1.25	12.2-12.5	≥899	≥11.3	≥2786	≥35	287-310	36-39	230	≥7.5
N40AH	1.26-1.31	12.6-13.1	≥939	≥11.8	≥2786	≥35	302-334	38-42	230	≥7.5
N42AH	1.29-1.35	12.9-13.5	≥955	≥12.0	≥2786	≥35	318-350	40-44	230	≥7.5

Grade	Remanence		Coercive Force		Intrinsic Coercive Force		Maximum Energy Product		Maximum Working Temperature	Density
	Br		Hcb		Hcj		(BH)max			
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe	℃	g/cm3
G48SH	1.37-1.42	13.7-14.2	>1011	>13	>1592	>20	358-390	45-49	<150	>7.5
G50SH	1.40-1.45	14.0-14.5	>1027	>13.2	>1592	>20	374-406	47-51	<150	>7.5
G52SH	1.42-1.48	14.2-14.8	>1067	>13.4	>1592	>20	390-422	49-53	<150	>7.5
G55SH	1.46-1.51	14.6-15.1	>1083	>13.6	>1592	>20	406-438	51-55	<150	>7.5
G45UH	1.33-1.38	13.3-13.8	>978	>12.4	>1990	>25	334-366	42-46	<180	>7.5
G48UH	1.37-1.42	13.7-14.2	>1027	>12.9	>1990	>25	358-390	45-49	<180	>7.5
G50UH	1.40-1.45	14.0-14.5	>1051	>13.2	>1990	>25	374-406	47-51	<180	>7.5
G52UH	1.42-1.48	14.2-14.8	>1067	>13.5	>1990	>25	390-422	49-53	<180	>7.5
G54UH	1.46-1.51	14.6-15.1	>1075	>13.5	>1990	>25	406-438	51-55	<180	>7.5
G40EH	1.26-1.31	12.6-13.1	>955	>12.0	>2388	>30	302-334	38-42	<200	>7.5
G44EH	1.29-1.35	12.6-13.1	>971	>12.2	>2388	>30	318-350	40-44	<200	>7.5
G46EH	1.33-1.38	12.6-13.1	>1011	>12.7	>2388	>30	334-366	42-46	<200	>7.5
G48EH	1.37-1.42	12.6-13.1	>1027	>12.9	>2388	>30	358-390	45-49	<200	>7.5
G50EH	1.40-1.45	12.6-13.1	>1051	>13.2	>2388	>30	374-406	47-51	<200	>7.5