

# NdFeB (sintered)

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## Property Table

English Version  
For reference only

- Remanence ( $B_r$ ), measure the strength of the magnetic field;
- Coercivity ( $H_{cb}$  /  $H_{cj}$ ), the material's resistance to becoming demagnetized;
- Energy product ( $BH_{max}$ ), the density of magnetic energy, which relates to the magnetic flux output per unit volume. Higher values indicate stronger magnets
- Curie temperature ( $T_c$ ), the temperature at which the material loses its magnetism.

Sintered NdFeB - Property Table - CGS unit

Grade	(range) Remanence (Br) kGs	(min.) Intrinsic Coercivity (Hcj) kOe	(min.) Coercivity (Hcb) kOe	Max Energy Product (BH)max MGOe	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C
N33	11.30-11.70	12.0	10.8	31-34	80	310
N35	11.70-12.20	12.0	10.8	33-36	80	310
N38	12.20-12.50	12.0	10.8	36-39	80	310
N40	12.50-13.00	12.0	10.8	38-41	80	310
N42	12.80-13.30	12.0	10.8	40-43	80	310
N45	13.30-13.80	12.0	10.5	43-46	80	310
N48	13.70-14.30	12.0	10.5	46-49	80	310
N50	13.90-14.50	11.0	10.5	47-51	80	310
N52	14.20-14.70	11.0	10.5	49-53	80	310
N33M	11.30-11.70	14.0	11.0	28-32	100	310
N35M	11.70-12.20	14.0	11.5	31-34	100	310
N38M	12.20-12.50	14.0	11.8	33-36	100	310
N40M	12.50-13.00	14.0	12.0	36-39	100	310
N42M	12.80-13.30	14.0	12.2	38-41	100	310
N45M	13.30-13.80	14.0	12.5	40-43	100	310
N48M	13.70-14.30	14.0	12.5	43-46	100	310
N50M	13.90-14.50	13.0	12.5	46-49	100	310
N33H	11.30-11.70	17.0	11.0	47-51	120	310
N35H	11.70-1.20	17.0	11.5	28-32	120	310
N38H	12.20-12.50	17.0	11.8	31-34	120	310
N40H	12.50-13.00	17.0	12.1	33-36	120	310
N42H	12.80-13.30	17.0	12.5	36-39	120	310
N45H	13.30-13.80	17.0	12.7	38-41	120	310
N48H	13.70-14.30	16.0	12.9	40-43	120	310
N50H	13.90-14.50	16.0	13.0	43-46	120	310
N33SH	11.30-11.70	20.0	11.1	45-49	150	320
N35SH	11.70-12.20	20.0	11.6	47-51	150	320
N38SH	12.20-12.50	20.0	11.8	25-27	150	320
N40SH	12.50-13.00	20.0	12.0	28-32	150	320
N42SH	12.80-13.40	19.0	12.4	31-34	150	320
N45SH	13.20-13.80	19.0	12.7	33-36	150	320
N48SH	13.60-14.20	19.0	12.7	36-39	150	320
N28UH	10.20-10.80	25.0	10.5	38-41	180	330
N33UH	11.30-11.80	25.0	10.8	40-43	180	330
N35UH	11.70-12.20	25.0	11.2	43-46	180	330
N38UH	12.20-12.70	25.0	11.6	45-49	180	330
N28EH	10.40-10.90	30.0	10.3	26-29	200	330
N30EH	10.80-11.40	30.0	10.8	28-32	200	330
N33EH	11.30-11.80	30.0	11.1	31-34	200	330
N35EH	11.70-12.20	30.0	11.6	33-36	200	330
N28AH	10.20-10.90	35.0	10.0	36-39	220-240	330
N30AH	10.70-11.30	35.0	10.3	38-41	220-240	330
N33AH	11.10-11.70	35.0	10.8	39-43	220-240	330

\*for reference only

Sintered NdFeB - Property Table - SI unit

Grade	(range) Remanence (Br) mT	(min.) Intrinsic Coercivity (Hcj) kA/m	(min.) Coercivity (Hcb) kA/m	Max Energy Product (BH)max kJ/m <sup>3</sup>	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C
N33	1130-1170	955	836	247-270	80	310
N35	1170-1220	955	868	263-287	80	310
N38	1220-1250	955	899	287-310	80	310
N40	1250-1300	955	923	302-326	80	310
N42	1280-1330	955	923	318-342	80	310
N45	1330-1380	955	876	342-366	80	310
N48	1370-1430	955	892	366-390	80	310
N50	1390-1450	876	836	374-406	80	310
N52	1420-1470	876	836	390-422	80	310
N33M	1130-1170	1114	836	247-270	100	310
N35M	1170-1220	1114	868	263-287	100	310
N38M	1220-1250	1114	899	287-310	100	310
N40M	1250-1300	1114	923	302-326	100	310
N42M	1280-1330	1114	955	318-342	100	310
N45M	1330-1380	1114	995	342-366	100	310
N48M	1370-1430	1114	1019	358-390	100	310
N50M	1390-1450	1114	1035	374-406	100	310
N33H	1130-1170	1353	836	247-270	120	310
N35H	1170-1220	1353	868	263-287	120	310
N38H	1220-1250	1353	899	287-310	120	310
N40H	1250-1300	1353	923	302-326	120	310
N42H	1280-1330	1274	955	318-342	120	310
N45H	1330-1380	1274	963	334-358	120	310
N48H	1370-1430	1274	971	342-366	120	310
N50H	1390-1450	1274	1035	374-406	120	310
N33SH	1130-1170	1592	844	247-270	150	320
N35SH	1170-1220	1592	876	263-287	150	320
N38SH	1220-1250	1592	907	287-310	150	320
N40SH	1250-1300	1592	939	302-326	150	320
N42SH	1280-1340	1512	971	318-342	150	320
N45SH	1320-1380	1512	995	342-366	150	320
N48SH	1360-1420	1512	995	358-390	150	320
N28UH	1020-1080	1990	764	207-231	180	330
N33UH	1130-1180	1990	852	247-270	180	330
N35UH	1170-1220	1990	860	263-287	180	330
N38UH	1220-1270	1990	876	287-310	180	330
N28EH	1040-1090	2388	780	207-231	200	330
N30EH	1080-1140	2388	812	223-254	200	330
N33EH	1130-1180	2388	820	247-270	200	330
N35EH	1170-1220	2388	836	263-287	200	330
N28AH	1020-1090	2706	780	199-231	220-240	330
N30AH	1070-1130	2706	812	215-247	220-240	330
N33AH	1110-1170	2706	820	239-271	220-240	330

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