



## FLEXIBLE MAGNETS (FlexNeo - FlexFer & FlexSteel)

Polveri di Ferrite o NdFeB miscelate a diversi tipi di polimeri per soddisfare qualsiasi esigenza. Prodotti per calandratura o estrusione sia isotropi che anisotropi anche in grandi formati

### Typical magnetic properties

Grade	Residual Induction (Br)		Coercitivity (minimum values) (bHC)		Intrinsic Coercitivity (minimum values) (jHC)		Max Energy Product (BH)max		Temperature Coefficient $\Delta \% / ^\circ\text{C}^{-1}$	Density	Max Operating Temperature
	Gs	mT	Oe	KA/m	Oe	KA/m	MGOe	KJ/m3	Br	g/cm3	°C
FLEXFER 21	2400 - 2600	240 - 260	2050 - 2550	163 - 179	> 2600	> 207	1.30 - 1.50	10.35 - 11.94	0.18	3.7 - 3.8	85
FLEXFER 24	2550 - 2750	255 - 275	2100 - 2300	167 - 183	> 2600	> 207	1.45 - 1.65	11.14 - 12.73	0.18	3.75 - 3.85	85
FLEXFER-21N	2550 - 2750	255 - 275	2050 - 2250	163 - 179	> 2600	> 207	1.50 - 1.70	11.54 - 13.13	0.18	3.7 - 3.8	85
FLEXNEO-2	2500 - 3500	250 - 350	1500 - 2500	120 - 200	2000 - 4000	150 - 320	1.5 - 2.5	12 - 20	0.11	3.3 - 3.9	120
FLEXNEO-3	3300 - 4300	330 - 430	2100 - 3100	170 - 250	3800 - 6800	302 - 540	2.5 - 3.5	20 - 28	0.11	4.0 - 4.6	120
FLEXNEO-4	3800 - 4800	380 - 480	2700 - 3700	210 - 300	6800 - 8800	540 - 700	3.5 - 4.5	28 - 36	0.11	4.4 - 5.0	120
FLEXNEO-5	4300 - 5300	430 - 530	3200 - 4200	250 - 340	7800 - 9800	620 - 780	4.5 - 5.5	36 - 44	0.11	4.65 - 5.25	120
FLEXNEO-6	4800 - 5800	480 - 580	3700 - 4700	290 - 380	8000 - 10000	630 - 800	5.5 - 6.5	44 - 52	0.11	4.65 - 5.25	120
FLEXNEO-7	5300 - 6300	530 - 630	4300 - 5300	340 - 420	8500 - 11000	670 - 880	6.5 - 7.5	52 - 60	0.11	4.8 - 5.4	120
FLEXNEO-8	5700 - 6700	570 - 670	4500 - 5500	350 - 440	8500 - 11000	670 - 880	7.5 - 8.5	60 - 68	0.11	5.1 - 5.7	120
FLEXNEO-E2	2500 - 3500	250 - 350	1500 - 2500	120 - 200	2000 - 4000	150 - 320	1.5 - 2.5	12 - 20	0.16	3.45 - 4.05	100
FLEXNEO-E3	3500 - 4500	350 - 450	2100 - 3100	170 - 250	3500 - 5500	280 - 440	2.5 - 3.5	20 - 28	0.16	4.1 - 4.7	100
FLEXNEO-E4	4500 - 5500	450 - 550	2500 - 3500	200 - 280	4500 - 5500	350 - 440	3.5 - 4.5	28 - 36	0.17	4.5 - 5.1	100
FLEXNEO-E5	5500 - 6500	550 - 650	2500 - 3500	200 - 280	4500 - 5500	350 - 440	4.5 - 5.5	36 - 44	0.17	4.7 - 5.5	100
FLEXSTEEL-N	Nanoparticelle di ferro miscelate a plastica (CPE o altro tipo) - Spessore da 0.4 a 1.0mm x H 620mm x L 15 o 30 mt										
FLEXSTEEL-A	Nanoparticelle di ferro miscelate a plastica (CPE o altro tipo) - Versione "Non Ossidabile" Spessore da 0.2 a 0.5mm x H 1620mm x L 20 o 30 mt										

Note: The above properties are subject to change without notice. For further details pls contact us

Chemical Enviromental Resistance	FLEXFER-21	FLEXFER-24	FLEXFER-21N	FLEXNEO-2	FLEXNEO-3	FLEXNEO-4	FLEXNEO-4	FLEXNEO-5	FLEXNEO-5	FLEXNEO-6	FLEXNEO-E
Heat resistant (100°C x 72h)	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Cold resistant (-40°C x 72h)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Humidity resistant (60°C x 90% RH x 72h)	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Motor Oil resistant (23°C x 72h)	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Heat Shock resistant (-40°C to 80°C x 1 h x 24 cycles)	Good	Good	Good	Excellent	Excellent	Good	Good	Good	Good	Good	Good
Salt Spray Test (35°C x 5% NaCl x 24h)	Excellent	Excellent	Excellent	Good	Good	Good	Good	Good	Good	Good	Good

### Other typical properties (Flex Neo only)

Tensile Strength	Hardness	weight reduction by heat	Minimum saturation field
Mpa	Shore D	(%)	KA/m > 800
> 3	20 - 80	< 1	KOe > 10

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