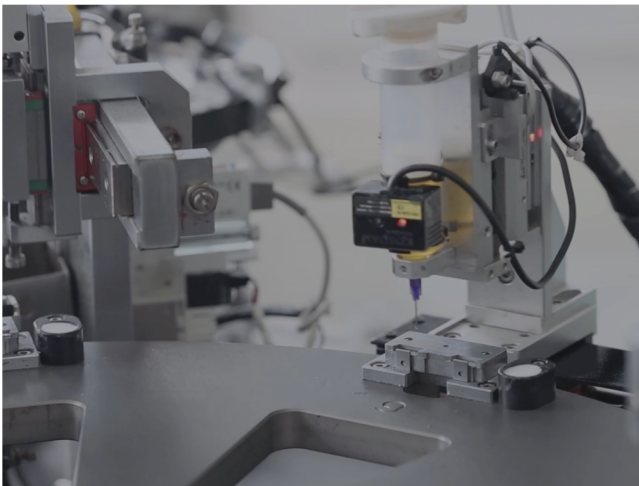




SmFeN Magnets

Rare-earth permanent magnet of Sm, Fe, and N with high energy product, thermal stability, and demagnetization resistance — outperforming conventional NdFeB in high-temperature and corrosive environments for NEV motors, sensors, consumer micro devices, and efficient industrial motors.



X-MAG's capabilities cover magnetic engineering & simulation, automated sustainable manufacturing, comprehensive quality assurance, and advanced magnet R&D.

Typical Magnetic Properties of SmFeN Magnets

SmFeN composite granular material													
Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Density	Flexural Strength	Injection Temperature
	Br		HcB		HcJ		(BH)max		a (Br)	β (HcJ)	ρ	B	TwMax
	mT	Gs	kA/m	Oe	kA/m	Oe	kJ/m ³	MGOe	%/ ° C	%/ ° C	g/cm3	Mpa	° C
XSFN230	370-450	3700-4500	207-278	2600-3500	278-440	3500-5500	20-7.8	2.5-3.5	-0.09	-0.44	3.6-4.0	56	245
XSFN240	400-500	4000-5000	207-278	2600-3500	358-517	4500-6500	27.8-35.8	3.5-4.5			3.4-3.8	59.84	245
XSFN250	450-550	4500-5500	240-320	3000-4000	358-517	4500-6500	35.8-43.8	4.5-5.5			3.6-4.0	63.5	245
XSFN260	500-600	5000-6000	240-320	3000-4000	400-480	5000-6000	43.8-51.7	5.5-6.5			4.0-4.5	57.6	245
XSFN270	550-650	5500-6500	240-320	3000-4000	400-480	5000-6000	51.7-59.7	6.5-7.5			4.2-4.6	57.2	245
XSFN280	600-700	6000-7000	280-360	3500-4500	440-520	5500-6500	59.7-67	7.5-8.5			4.3-4.8	67	245
XSFN290	650-750	6500-7500	320-400	4000-5000	480-640	6000-8000	67-76	8.5-9.5			4.5-5.0	59	245
XSFN2100	660-770	6700-7700	400-478	5000-6000	716-875	9000-11000	80-87	10.0-11.0			4.8-5.3	65	245