

Magnet-Materialien (Forts.)

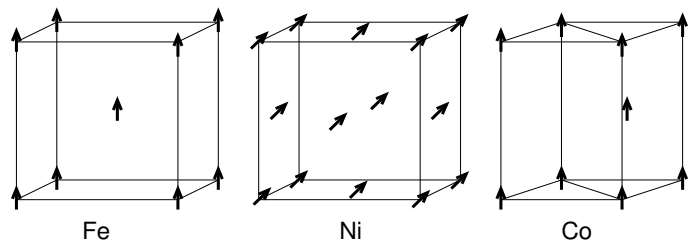
2. Anwendungen

Substanz	$\mu_r$ -	$B_s$ [T]	$H_c$ [A/m]	$M_R$ [T]	$B \cdot H$ [TA/m]
SmCo <sub>5</sub>			760 000	0.95	200 000
Nd <sub>2</sub> Fe <sub>12</sub> B			880 000	1.2	360 000
BaFe <sub>12</sub> O <sub>19</sub>			190 000	0.4	20 000
Fe	5 000	2.14	72		
45-Permalloy (Fe/Ni)	25 000	1.6	20		
B2 Ferroxcube (Ni, Zn)Fe <sub>2</sub> O <sub>4</sub>		0.3			
$\gamma$ -Fe <sub>2</sub> O <sub>3</sub>			30 000		
$\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Co-dot.					
CrO <sub>2</sub>			110 000		
Fe			75 000-130 000		
Fe/Co (70/30)			90 000-160 000		
Co/Pt/Cr/B					

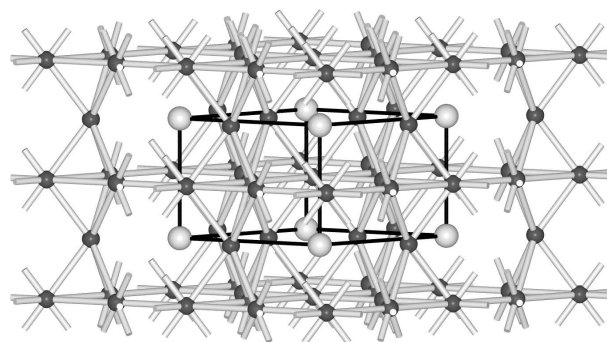
3. Materialien

3.1. Metalle und Legierungen

	$T_{C/N}$ [K]	ferro	antiferro
Fe	1043	x	
Ni	631	x	
Co	1404	x	
Nd <sub>2</sub> Fe <sub>12</sub> B	583	x	
SmCo <sub>5</sub>	998	x	
Mn	95		x
Cr	313		x
Eu	90		x
Ho	131/20	x	x



Ferromagnetische Ordnung in einfachen Metallen



Kristallstruktur von SmCo<sub>5</sub> (CaCu<sub>5</sub>-Typ)