

Table 1: Material characteristics measured on toroids R 30/18/7

Physical property	Symbol	Unit	K700	K2006
Initial permeability	μ_i	—	700 $\pm 25\%$	2100 $\pm 25\%$
Flux density at field strength	B H	mT A/m	420 1000 (100°C)	490 800
Remanence	B_r	mT	350	200
Coercitivity	H_c	A/m	75	≤ 20
Curie temperature	T_c	°C	≥ 330	≥ 200
Rel. temperature coefficient of the initial permeability at	α_F	$10^{-6}/K$		
-25°C .. +25°C			≤ 10	≤ 6
+5°C .. +25°C			≤ 6	≤ 6
+25°C .. +55°C			≤ 6	≤ 10
+25°C .. +75°C			≤ 8	≤ 10
Resistivity	ρ	Ωm	≥ 1	≥ 1

Measurements in compliance with IEC 401

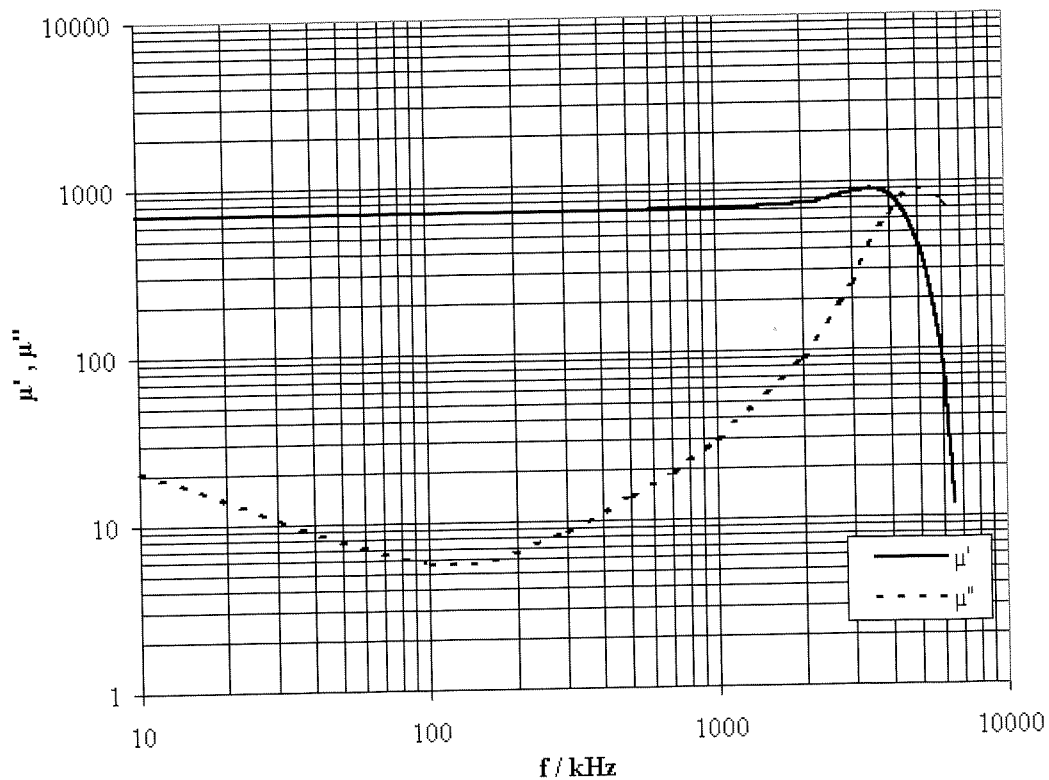


Figure 1: Complex permeability measured on toroid R 30/18/7 (material K700)

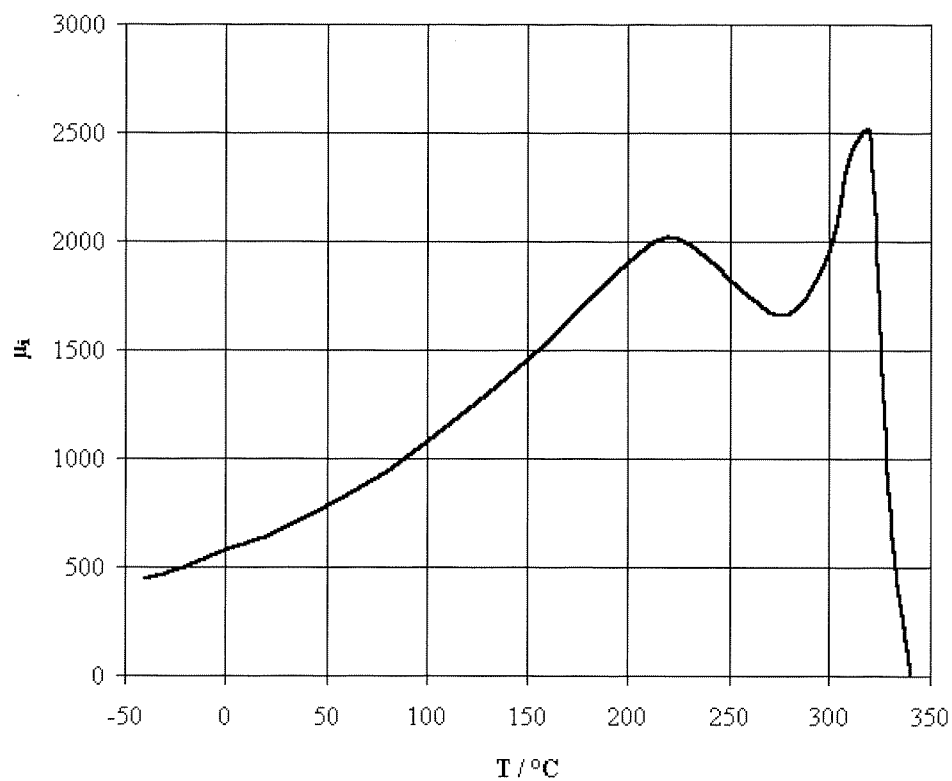


Figure 2: Initial permeability versus temperature measured on toroid R 30/18/7 (material K700)

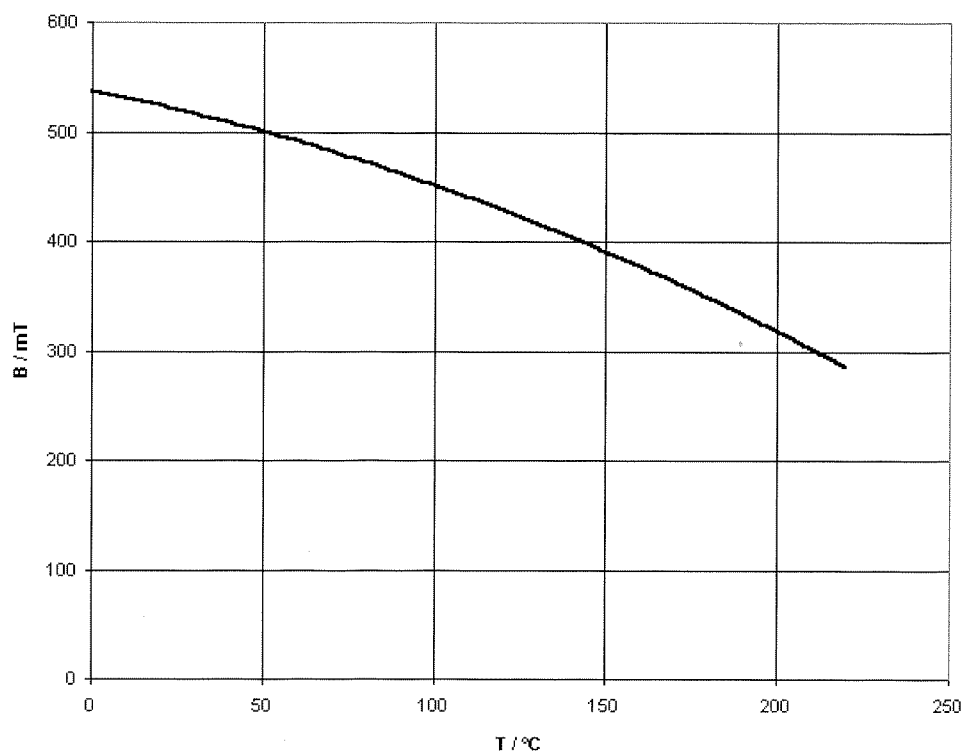
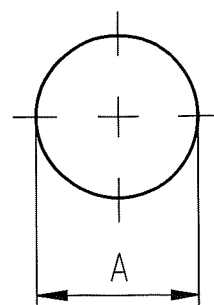
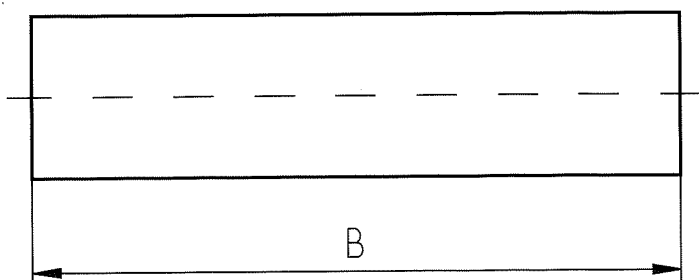


Figure 3: Flux density versus temperature measured on toroid R 30/18/7 at $H = 3000 \text{ A/m}$ (material K700)

Solid round rods



Materials: **K700** **code: 700**
 K2006 **code: 026**

281a

A mm	B mm	order number*	approx. weight per piece g
3±0.3	200±4.0	402 032001 XXX	7
4±0.3	200±4.0	402 042001 XXX	12
5±0.3	200±4.0	402 052001 XXX	18
6±0.3	200±4.0	402 062001 XXX	27
7±0.3	200±4.0	402 072001 XXX	35
8±0.3	200±4.0	402 082001 XXX	47
10±0.35	200±4.0	402 102001 XXX	74
11±0.35	200±4.0	402 112001 XXX	85
12±0.35	200±4.0	402 122001 XXX	105
14±0.4	200±4.0	402 142001 XXX	145
15±0.45	200±4.0	402 152001 XXX	165
16±0.5	200±4.0	402 162001 XXX	190
18±0.55	200±4.0	402 182001 XXX	240
20±0.6	200±4.0	402 202001 XXX	295
22±0.65	200±4.0	402 222001 XXX	360

* "XXX" to be replaced by the material code

Other lengths and diameters (max. 40 mm) on request