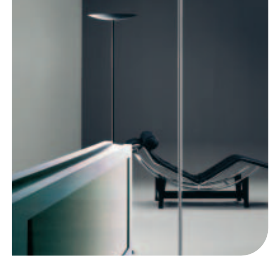




Automotive Electronics



Industrial Electronics



Entertainment Electronics

Impeder für induktives HF-Schweißen

Impeder for inductive welding



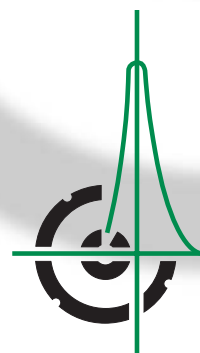
Consumer Goods Industry



Telecommunications



Lighting Electronics



KASCHKE KG

GMBH & CO. WWW.KASCHKE.DE

KASCHKE KG GMBH & CO.

PO box 2542 · 37015 Göttingen · Germany

Impeder für induktives HF-Schweißen

Impeder for inductive welding

Die Kaschke KG produziert ein breites Spektrum Impederstäbe für das induktive HF-Schweißen. Diese Ferritimpeder werden als Konzentratoren für den magnetischen Fluss benötigt, um nahtlose Rohre zu fertigen, wie sie in der Öl- oder Gasindustrie Verwendung finden.

Hierfür stehen die beiden Ferritmaterialien K 700 und K 2006 zur Verfügung, die sich vor allem durch folgende Eigenschaften auszeichnen:

- Eine hohe Curietemperatur, und damit eine hohe Anwendungstemperatur
- Eine hohe Flussdichte im Temperaturbereich bis 150 °C
- Niedrige Verlustleistungen im Frequenzbereich bis 500 kHz
- Eine hohe wirksame Permeabilität
- Eine gute Frequenzstabilität der Permeabilität bis 1 MHz

Die Palette der Kaschke-Ferritimpederkerne umfasst 5 verschiedene Kernformen:

- Runde Stabkerne
- Abgeflachte Stabkerne
- Gefiederte Stabkerne
- Runde Hohlzylinderkerne
- Gefiederte Hohlzylinderkerne

in den Durchmessern von 3 mm bis 40 mm und Längen bis zu 200 mm

Kaschke KG offers a wide range of impeder cores for HF welding applications. The ferrite impeder cores are used for the concentration of magnetic flux, e.g. in the manufacture of seamless tubes, used in the oil and gas industry.

For these applications we offer the special ferrite materials K 700 and K 2006, carrying the following features:

- High Curie temperature and thus a high operating temperature
- High flux density in the temperature range up to 150 °C
- Low losses in the frequency range of up to 500 kHz and more
- High effective permeability
- High frequency stability of the permeability up to 1 MHz

The range of the Kaschke ferrite impeder cores covers the following 5 different core types:

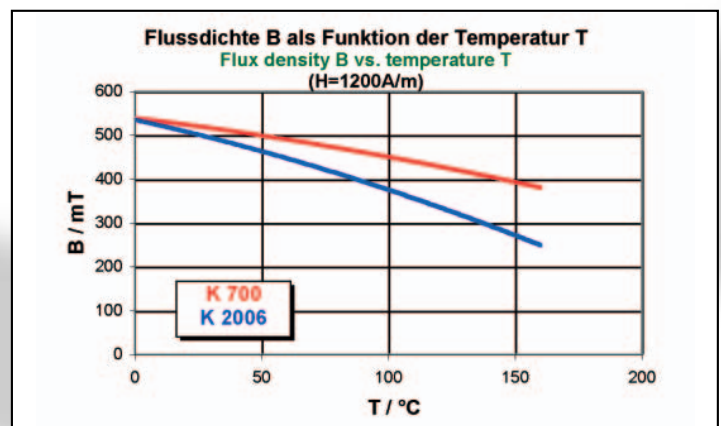
- Solid round rods
 - Solid flatsided rods
 - Solid fluted rods
 - Hollow rods
 - Hollow fluted rods
- with the diameters of 3 mm up to 40 mm and lengths of up to 200 mm



Materialeigenschaften

Material characteristics

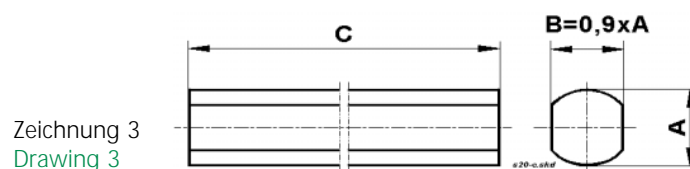
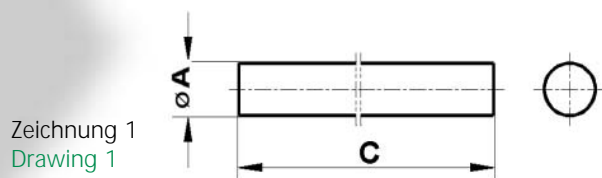
Eigenschaft Physical characteristic	Einheit Unit	K 700	K 2006
Anfangspermeabilität μ_i Initial permeability μ_i	-	700 ± 25%	2100 ± 25%
Fluxdichte B Flux density B bei Feldstärke H at field strength H	mT A/m	≥ 500 1000	≥ 490 800
Remanenz B_r Remanence B_r	mT	≥ 350	≥ 200
Coercivfeldstärke H_c Coercive force H_c	A/m	≤ 75	≤ 20
Curie-Temperatur ϑ_c Curie temperature ϑ_c	°C	≥ 330	≥ 200
Spez. Widerstand ρ Resistivity ρ	Ωm	≥ 1	≥ 1



Impederstäbe Impeder cores

Typ	Zch.-Nr.	Abmessungen		Nuten	Segmente	EDV-Nr.
		A/mm	C/mm			
Type	Drawing no.	Physical dimension		Grooves	Segments	EDP no.
S 4/200A	1	4,0 ± 0,3	200 ± 3,0		1	402 042001 xxx
S 5/200A	1	5,0 ± 0,3	200 ± 3,0		1	402 052001 xxx
S 6/200A	1	6,0 ± 0,3	200 ± 3,0		1	402 062001 xxx
S 7/200A	1	7,0 ± 0,3	200 ± 3,0		1	402 072001 xxx
S 8/200A	1	8,0 ± 0,3	200 ± 3,0		1	402 082001 xxx
S 10/200A	1	10,0 ± 0,35	200 ± 3,0		1	402 102001 xxx
S 11/200A	1	11,0 ± 0,35	200 ± 3,0		1	402 112001 xxx
S 12/200A	1	12,0 ± 0,35	200 ± 3,0		1	402 122001 xxx
S 14/200A	1	14,0 ± 0,4	200 ± 3,0		1	402 142001 xxx
S 15/200A	1	15,0 ± 0,45	200 ± 3,0		1	402 152001 xxx
S 16/200A	1	16,0 ± 0,5	200 ± 3,0		1	402 162001 xxx
S 18/200A	1	18,0 ± 0,55	200 ± 3,0		1	402 182001 xxx
S 20/200A	1	20,0 ± 0,6	200 ± 3,0		1	402 202001 xxx
S 22/200A	1	22,0 ± 0,65	200 ± 3,0		8	402 222001 xxx
S 5/200B	2	5,0 ± 0,3	200 ± 3,0	6	1	402 052004 xxx
S 6/200B	2	6,0 ± 0,3	200 ± 3,0	6	1	402 062004 xxx
S 7/200B	2	7,0 ± 0,3	200 ± 3,0	6	1	402 072004 xxx
S 8/200B	2	8,0 ± 0,3	200 ± 3,0	6	1	402 082004 xxx
S 9/200B	2	9,0 ± 0,3	200 ± 3,0	6	1	402 092004 xxx
S 10/200B	2	10,0 ± 0,35	200 ± 3,0	6	1	402 102004 xxx
S 11/200B	2	11,0 ± 0,35	200 ± 3,0	6	1	402 112004 xxx
S 12/200B	2	12,0 ± 0,35	200 ± 3,0	8	1	402 122004 xxx
S 13/200B	2	13,0 ± 0,35	200 ± 3,0	8	1	402 132004 xxx
S 14/200B	2	14,0 ± 0,4	200 ± 3,0	8	1	402 142004 xxx
S 15/200B	2	15,0 ± 0,4	200 ± 3,0	8	1	402 152004 xxx
S 16/200B	2	16,0 ± 0,5	200 ± 3,0	8	1	402 162004 xxx
S 17/200B	2	17,0 ± 0,5	200 ± 3,0	8	1	402 172004 xxx
S 18/200B	2	18,0 ± 0,55	200 ± 3,0	8	1	402 182004 xxx
S 19/200B	2	19,0 ± 0,55	200 ± 3,0	8	1	402 192004 xxx
S 20/200B	2	20,0 ± 0,6	200 ± 3,0	8	1	402 202004 xxx
S 21/200B	2	21,0 ± 0,6	200 ± 3,0	8	8	402 212004 xxx
S 22/200B	2	22,0 ± 0,65	200 ± 3,0	8	8	402 222004 xxx
S 23/200B	2	23,0 ± 0,75	200 ± 3,0	8	8	402 232004 xxx
S 24/200B	2	24,0 ± 0,75	200 ± 3,0	8	8	402 242004 xxx
S 25/200B	2	25,0 ± 0,75	200 ± 3,0	8	8	402 252004 xxx
S 3/200C	3	3,0 ± 0,3	200 ± 3,0		1	402 032003 xxx
S 4/200C	3	4,0 ± 0,3	200 ± 3,0		1	402 042003 xxx
S 5/200C	3	5,0 ± 0,3	200 ± 3,0		1	402 052003 xxx
S 6/200C	3	6,0 ± 0,3	200 ± 3,0		1	402 062003 xxx
S 7/200C	3	7,0 ± 0,3	200 ± 3,0		1	402 072003 xxx
S 8/200C	3	8,0 ± 0,3	200 ± 3,0		1	402 082003 xxx
S 9/200C	3	9,0 ± 0,3	200 ± 3,0		1	402 092003 xxx
S 10/200C	3	10,0 ± 0,35	200 ± 3,0		1	402 102003 xxx
S 11/200C	3	11,0 ± 0,35	200 ± 3,0		1	402 112003 xxx
S 12/200C	3	12,0 ± 0,35	200 ± 3,0		1	402 122003 xxx
S 13/200C	3	13,0 ± 0,4	200 ± 3,0		1	402 132003 xxx
S 14/200C	3	14,0 ± 0,4	200 ± 3,0		1	402 142003 xxx

„xxx“ muss durch die Materialkennziffer ersetzt werden (K 700: 700; K 2006: 026)
 „xxx“ to be replaced by the material code (K 700: 700; K 2006: 026)

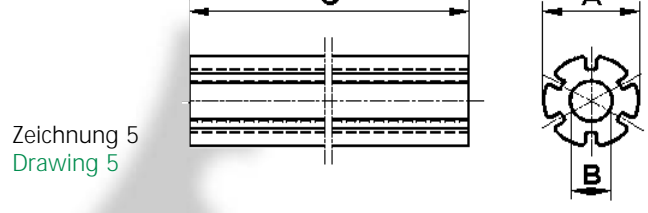
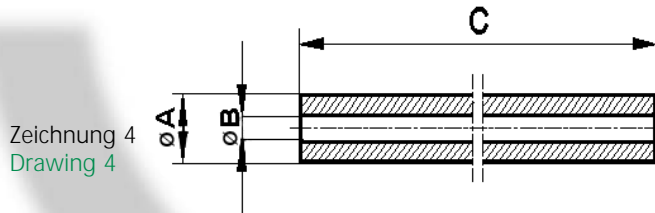


Hohlzylinderkerne
Hollow rod

Typ	Zch.-Nr.	Abmessungen			Nuten	Segmente	EDV-Nr.
		A/mm	B/mm	C/mm			
Type	Drawing no.	Physical dimension			Grooves	Segments	EDP no.
HZ 6/3/200g	4	6,0 ± 0,3	3,0 ± 0,3	200 ± 3,0		1	407 063200 xxx
HZ 7/3/200g	4	7,0 ± 0,3	3,0 ± 0,3	200 ± 3,0		1	407 073200 xxx
HZ 8/4/200g	4	8,0 ± 0,3	4,0 ± 0,3	200 ± 3,0		1	407 084200 xxx
HZ 9/4/200g	4	9,0 ± 0,3	4,0 ± 0,3	200 ± 3,0		1	407 094200 xxx
HZ 10/5/200g	4	10,0 ± 0,3	5,0 ± 0,3	200 ± 3,0		1	407 105200 xxx
HZ 11/5/200g	4	11,0 ± 0,35	5,0 ± 0,3	200 ± 3,0		1	407 115200 xxx
HZ 12/6/200g	4	12,0 ± 0,35	6,0 ± 0,3	200 ± 3,0		1	407 126200 xxx
HZ 13/6/200g	4	13,0 ± 0,35	6,0 ± 0,3	200 ± 3,0		1	407 136200 xxx
HZ 14/7/200g	4	14,0 ± 0,4	7,0 ± 0,3	200 ± 3,0		1	407 147200 xxx
HZ 15/7/200g	4	15,0 ± 0,4	7,0 ± 0,3	200 ± 3,0		1	407 157200 xxx
HZ 16/8/200g	4	16,0 ± 0,5	8,0 ± 0,3	200 ± 3,0		1	407 168200 xxx
HZ 17/8/200g	4	17,0 ± 0,5	8,0 ± 0,3	200 ± 3,0		1	407 178200 xxx
HZ 18/9/200g	4	18,0 ± 0,55	9,0 ± 0,3	200 ± 3,0		1	407 189200 xxx
HZ 19/9/200g	4	19,0 ± 0,55	9,0 ± 0,3	200 ± 3,0		1	407 199200 xxx
HZ 20/10/200g	4	20,0 ± 0,6	10,0 ± 0,35	200 ± 3,0		1	434 201020 xxx
HZ 21/10/200g	4	21,0 ± 0,6	10,0 ± 0,35	200 ± 3,0		1	434 211020 xxx
HZ 22/11/200g	4	22,0 ± 0,65	11,0 ± 0,35	200 ± 3,0		1	434 221120 xxx
HZ 23/11/200g	4	23,0 ± 0,75	11,0 ± 0,35	200 ± 3,0		8	434 231120 xxx
HZ 24/12/200g	4	24,0 ± 0,75	12,0 ± 0,35	200 ± 3,0		8	434 241220 xxx
HZ 25/12/200g	4	25,0 ± 0,75	12,0 ± 0,35	200 ± 3,0		8	434 251220 xxx
HZ 28/14/200g	4	28,0 ± 0,85	14,0 ± 0,4	200 ± 3,0		8	434 281420 xxx
HZ 30/15/200g	4	30,0 ± 0,9	15,0 ± 0,45	200 ± 3,0		8	434 301520 xxx
HZ 10/3/200GF	5	10,0 ± 0,35	3,0 ± 0,3	200 ± 3,0	6	1	391 103206 xxx
HZ 11/3/200GF	5	11,0 ± 0,35	3,0 ± 0,3	200 ± 3,0	8	1	391 113208 xxx
HZ 12/4/200GF	5	12,0 ± 0,35	4,0 ± 0,3	200 ± 3,0	8	1	391 124208 xxx
HZ 13/5/200GF	5	13,0 ± 0,35	5,0 ± 0,3	200 ± 3,0	8	1	391 135208 xxx
HZ 14/4/200GF	5	14,0 ± 0,4	4,0 ± 0,3	200 ± 3,0	8	1	391 144208 xxx
HZ 15/4/200GF	5	15,0 ± 0,4	4,0 ± 0,3	200 ± 3,0	8	1	391 154208 xxx
HZ 16/5/200GF	5	16,0 ± 0,5	5,0 ± 0,3	200 ± 3,0	8	1	391 165208 xxx
HZ 17/6/200GF	5	17,0 ± 0,5	6,0 ± 0,3	200 ± 3,0	8	1	391 176208 xxx
HZ 18/6/200GF	5	18,0 ± 0,55	6,0 ± 0,3	200 ± 3,0	8	1	391 186208 xxx
HZ 19/6/200GF	5	19,0 ± 0,55	6,0 ± 0,3	200 ± 3,0	8	1	391 196208 xxx
HZ 20/6/200GF	5	20,0 ± 0,6	6,0 ± 0,3	200 ± 3,0	8	1	391 206208 xxx
HZ 21/6/200GF	5	21,0 ± 0,6	6,0 ± 0,3	200 ± 3,0	8	1	391 216208 xxx
HZ 22/6/200GF	5	22,0 ± 0,65	6,0 ± 0,3	200 ± 3,0	8	1	391 226208 xxx
HZ 23/6/200GF	5	23,0 ± 0,75	6,0 ± 0,3	200 ± 3,0	8	8	391 236208 xxx
HZ 24/6/200GF	5	24,0 ± 0,75	6,0 ± 0,3	200 ± 3,0	8	8	391 246208 xxx
HZ 25/10/200GF	5	25,0 ± 0,75	10,0 ± 0,35	200 ± 3,0	8	8	391 250208 xxx
HZ 26/10/200GF	5	26,0 ± 0,75	10,0 ± 0,35	200 ± 3,0	8	8	391 260208 xxx
HZ 28/13/200GF	5	28,0 ± 0,85	13,0 ± 0,4	200 ± 3,0	8	8	391 283208 xxx
HZ 29/10/200GF	5	29,0 ± 0,85	10,0 ± 0,35	200 ± 3,0	8	8	391 290208 xxx
HZ 32/13/200GF	5	32,0 ± 0,95	13,0 ± 0,4	200 ± 3,0	8	8	391 320208 xxx
HZ 33/10/200GF	5	33,0 ± 0,9	10,0 ± 0,35	200 ± 3,0	8	8	391 330208 xxx
HZ 40/20/200GF	5	40,0 ± 1,2	20,0 ± 0,6	200 ± 3,0	8	8	391 402208 xxx

„xxx“ muss durch die Materialkennziffer ersetzt werden (K 700: 700; K 2006: 026)

„xxx“ to be replaced by the material code (K 700: 700; K 2006: 026)



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