

KARSON Material 40-200 Characteristic

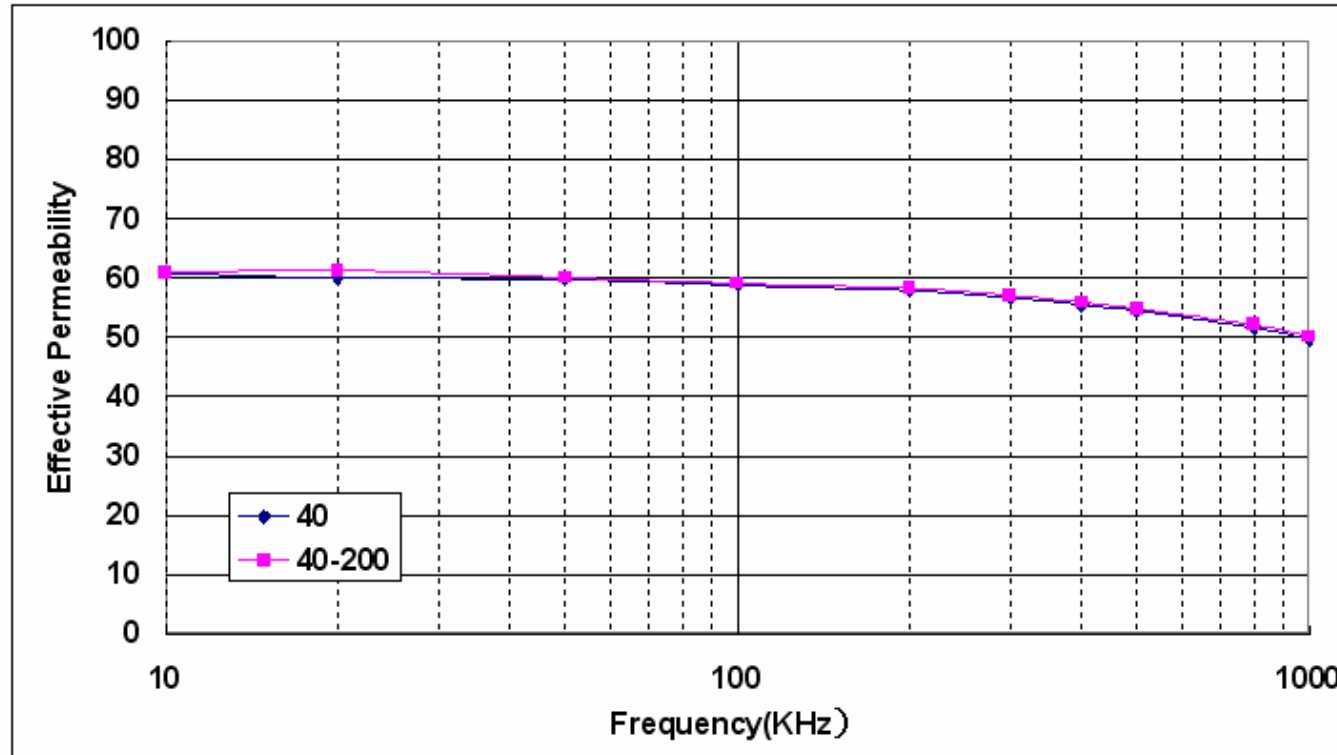
- **Effective Permeability VS Frequency**
- **Initial Permeability VS DC Magnetizing Force**
- **Initial Permeability VS Peak AC Flux Density**
- **Core Loss**
- **Initial Permeability VS Temperature**
- **Thermal Aging**
- **Use Temperature and Curie Temperature**



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Manufacturer and Supplier of Iron Powder Cores

◆ Effective Permeability VS Frequency



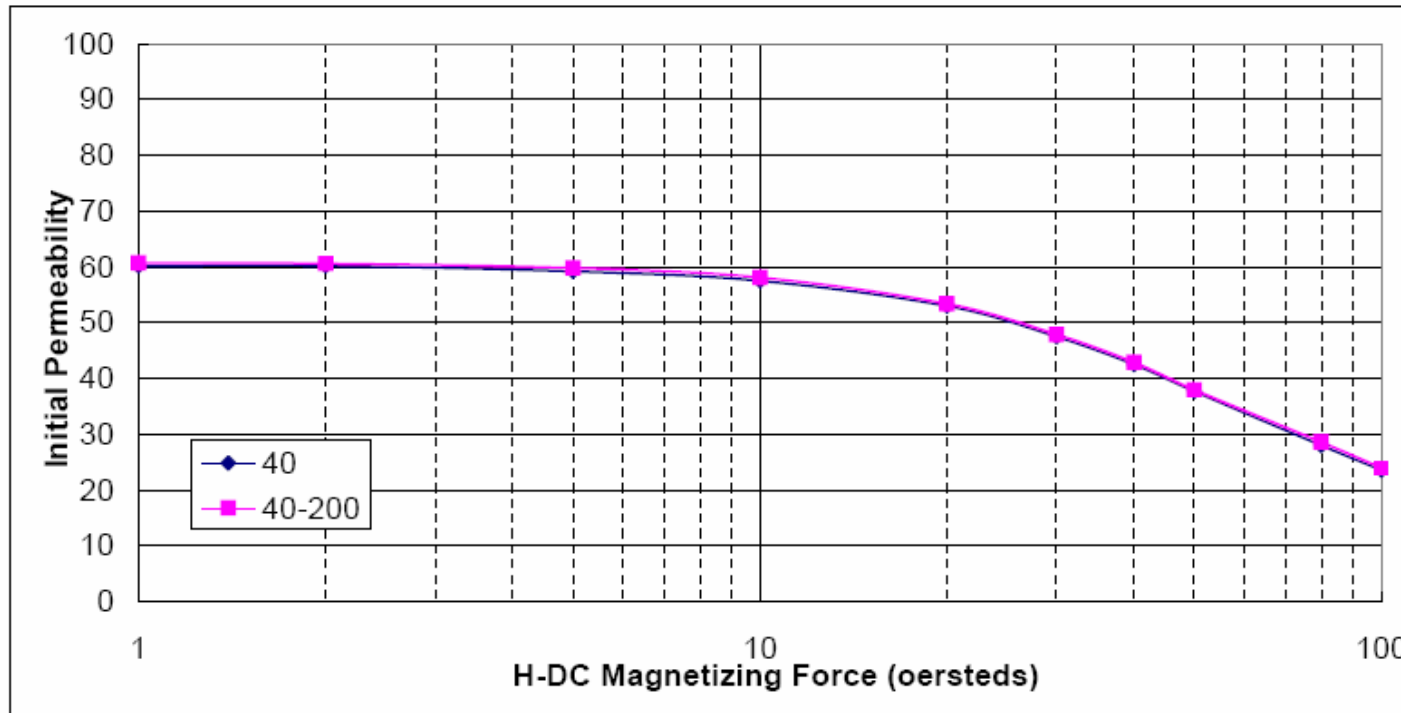
F(KHz) Mix No		10	20	50	100	200	300	400	500	800	1000
		40	60.8	60.0	59.8	58.8	57.9	56.7	55.5	54.5	51.6
ui	40-200	61.0	61.3	60.1	59.1	58.3	57.1	55.9	54.8	52.1	50.1
	Difference	0.3%	2.2%	0.5%	0.5%	0.7%	0.7%	0.7%	0.6%	1.0%	0.8%



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◆ Initial Permeability VS DC Magnetizing Force



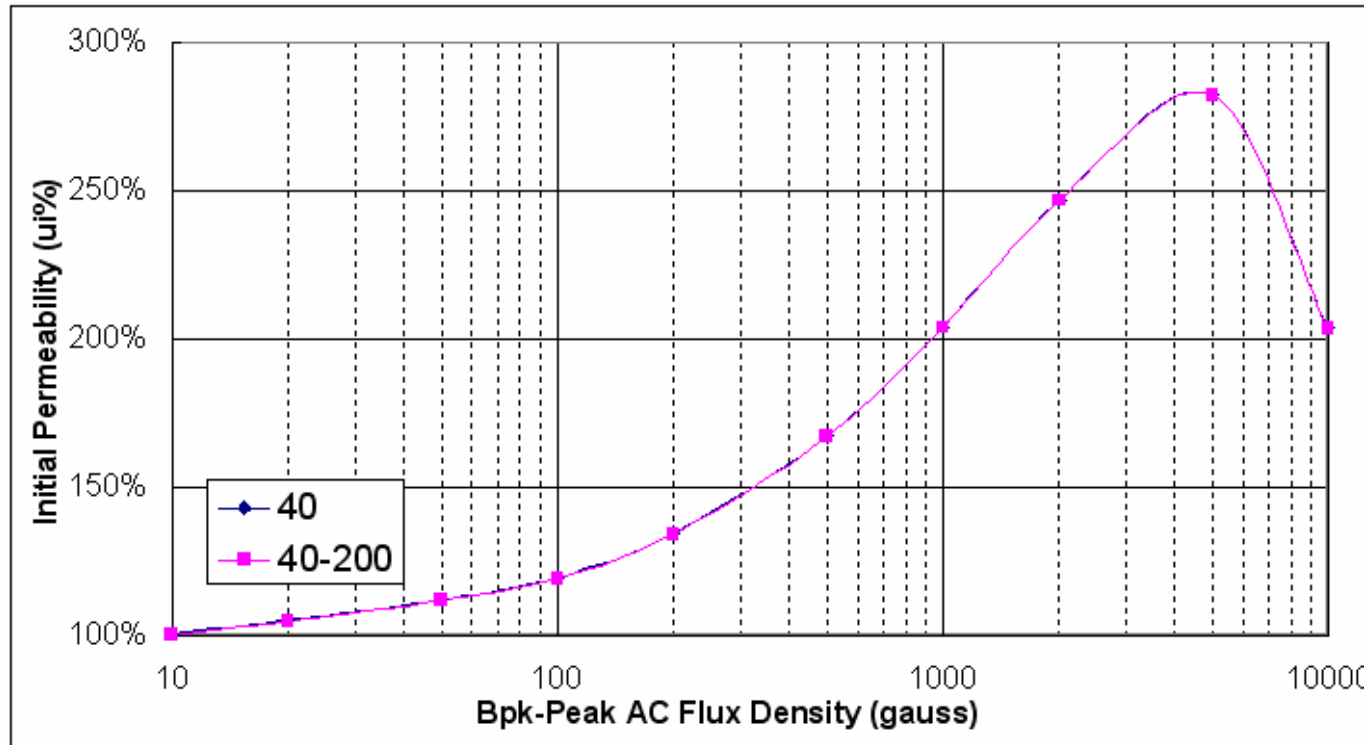
H-DC Mix No		1	2	5	10	20	30	40	50	80	100
		40	60.2	60.2	59.2	57.5	53.0	47.5	42.5	37.7	28.0
ui	40-200	60.7	60.6	59.8	58.1	53.4	47.9	42.9	38.0	28.6	24.0
	Difference	0.8%	0.7%	1.0%	1.0%	0.8%	0.8%	0.9%	0.8%	2.1%	1.7%



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◆ Initial Permeability VS Peak AC Flux Density



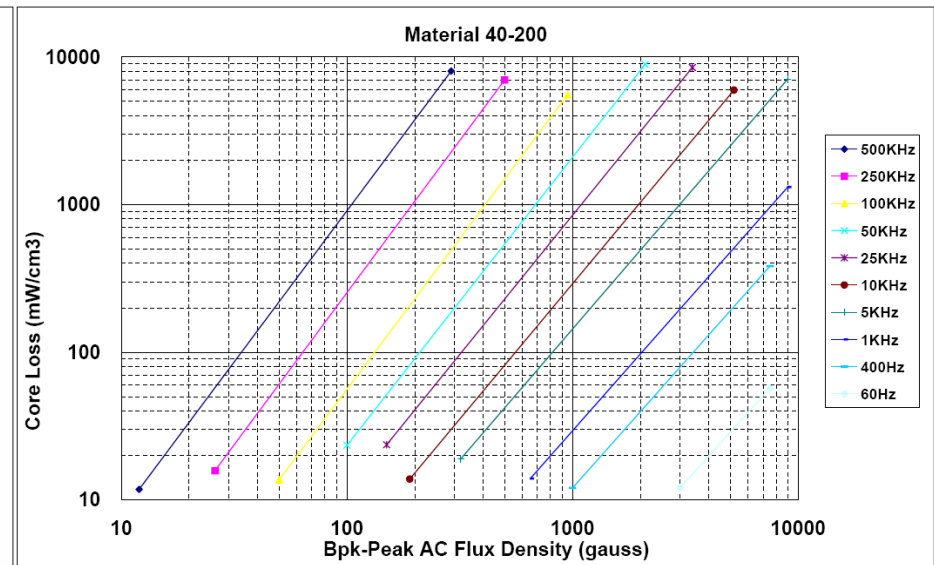
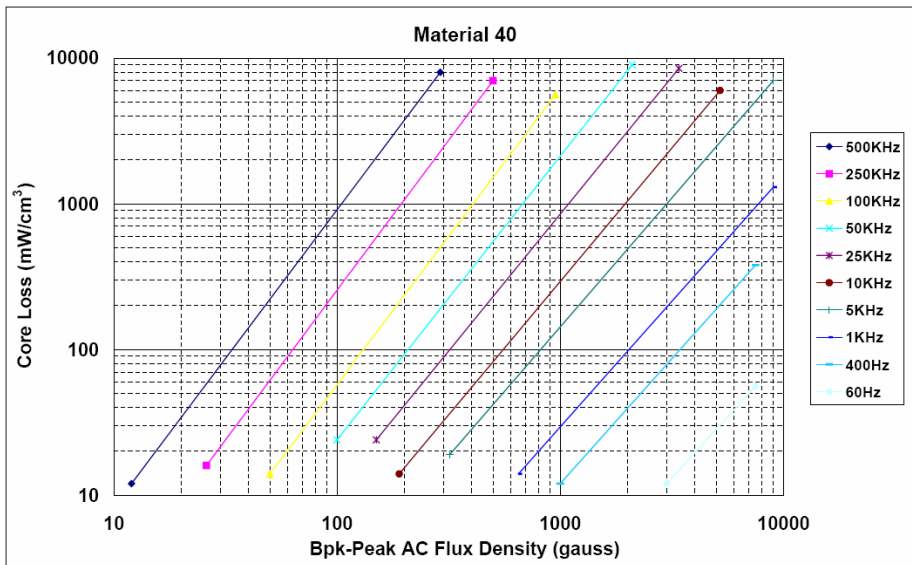
H-DC Mix No		H-DC									
		10	20	50	100	200	500	1000	2000	5000	10000
ui	40	100.7%	105.2%	112.1%	119.6%	134.7%	167.1%	204.0%	246.8%	282.2%	203.9%
	40-200	100.3%	104.8%	111.8%	119.3%	134.3%	166.9%	203.8%	246.6%	282.0%	203.5%
	Difference	-0.4%	-0.4%	-0.3%	-0.3%	-0.3%	-0.1%	-0.1%	-0.1%	-0.1%	-0.2%



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◆ Core Loss

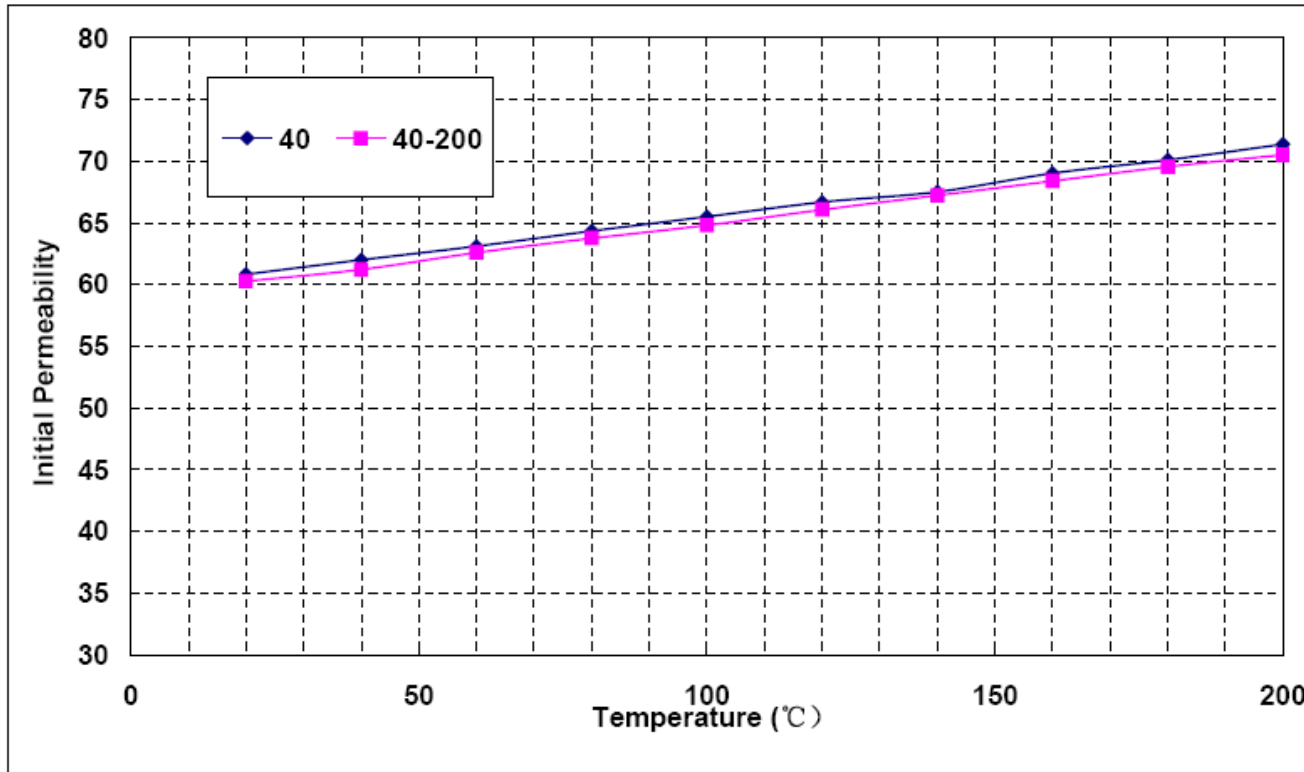




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◆ Initial Permeability VS Temperature



Temp(°C)		Mix No									
		20	40	60	80	100	120	140	160	180	200
ui	40	60.83	62.00	63.11	64.34	65.52	66.69	67.52	69.03	70.11	71.37
	40-200	60.27	61.22	62.59	63.75	64.81	66.07	67.23	68.40	69.56	70.52
	Difference	-0.9%	-1.3%	-0.8%	-0.9%	-1.1%	-0.9%	-0.4%	-0.9%	-0.8%	-1.2%



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◆ Thermal Aging

Operation Temperature vs. Time

