

CFR Low Power Loss & High Saturation Material Grades

| Characteristics | Conditions | Temp | CF196 | CF139 | CF124 | CF140 | CF130[#] | CF292[#] | CF297^{\$} | CF295^{\$} |
|--|-------------------|-------------|--------------|--------------|--------------|--------------|--------------------------|--------------------------|---------------------------|---------------------------|
| Initial Permeability | | 25°C | 2000± 20% | 2100± 20% | 2500± 20% | 2500± 20% | 3000± 20% | 1900± 20% | 2300± 20% | 3000± 20% |
| Saturation Flux Density | 10kHz\1kA/m) | 25°C | 500 | 490 | 490 | 390 | 520 | 500 | 510 | 525 |
| | | 100 °C | 400 | 390 | 390 | 310 | 410 | 440 | 410 | 410 |
| Remanent Flux Density | – | 25°C | 210 | – | 200 | 110 | 200 | – | – | 80 |
| Power Loss Density (KW/m³) | 16kHz/200mT | 25°C | ≤ 120 | – | ≤ 100 | – | – | – | – | – |
| | | 100 °C | ≤ 110 | – | ≤ 90 | – | – | – | – | – |
| | 25kHz/200mT | 25°C | ≤ 160 | – | ≤ 150 | – | – | – | – | – |
| | | 100 °C | ≤ 140 | – | ≤ 130 | – | – | – | ≤ 50 | – |
| | 100kHz/100mT | 25°C | – | – | – | – | – | – | – | – |
| | | 100 °C | – | ≤ 60 | – | – | – | ≤ 100 | – | – |
| 100kHz/200mT | 25°C | – | – | – | – | 390 | – | ≤ 600 | 400 | |
| | 100 °C | – | ≤ 380 | – | – | 800 | ≤ 500 | ≤ 350 | 350 | |
| Curie Temperature | – | | ≥ 200 | ≥ 210 | ≥ 220 | ≥ 150 | ≥ 230 | ≥ 240 | ≥ 210 | >210 |
| Resistivity (Ohm m) | – | | 0.4 | 8 | 0.5 | 1 | 3 | 6 | 8 | 5 |
| Density(gm/cc) | – | | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.85 | 4.85 |

#- New Developments

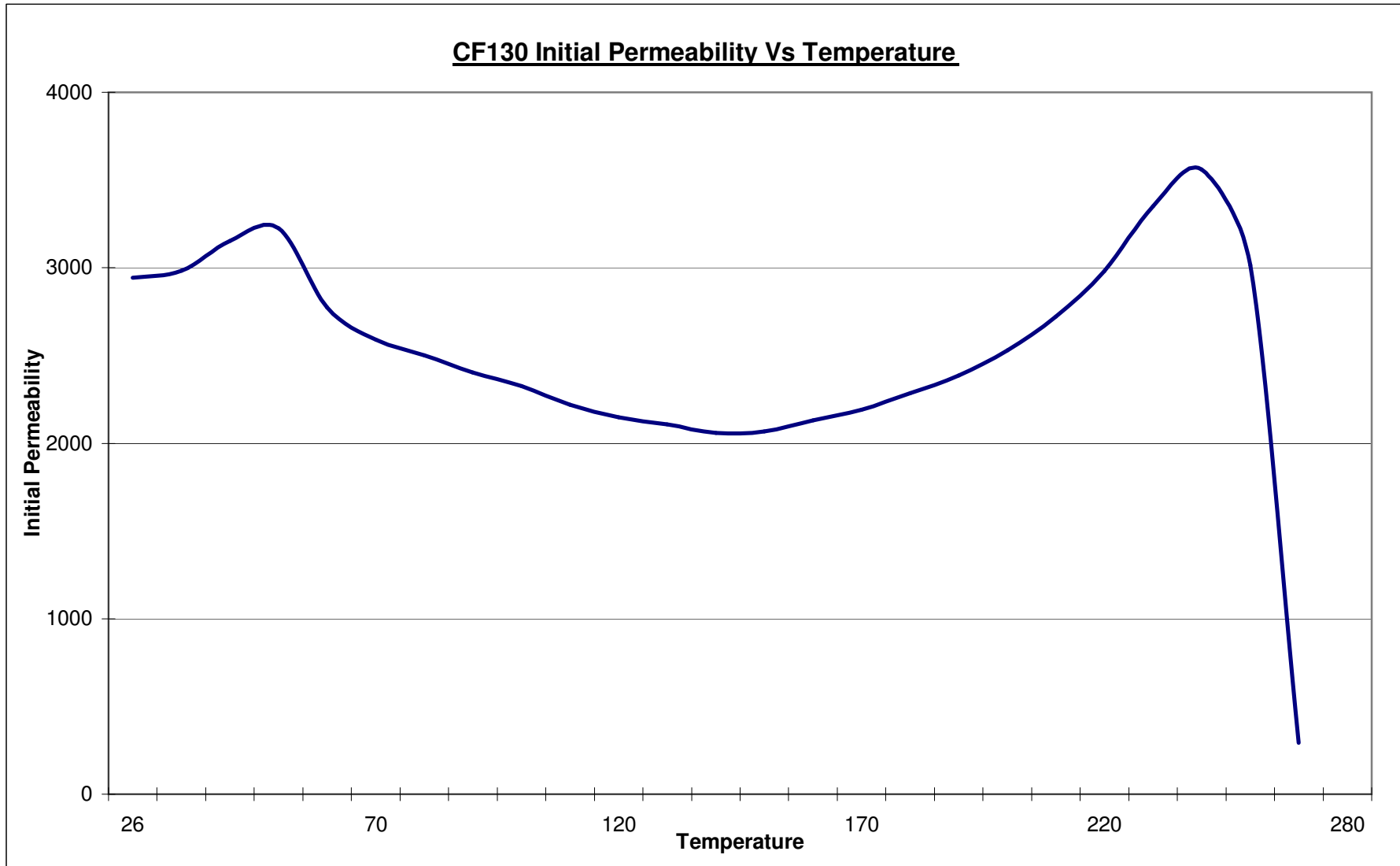
\$- Under Development

Cosmo Ferrites Limited

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Tested on standard toroids T25x15x12

CF130 High saturation Material

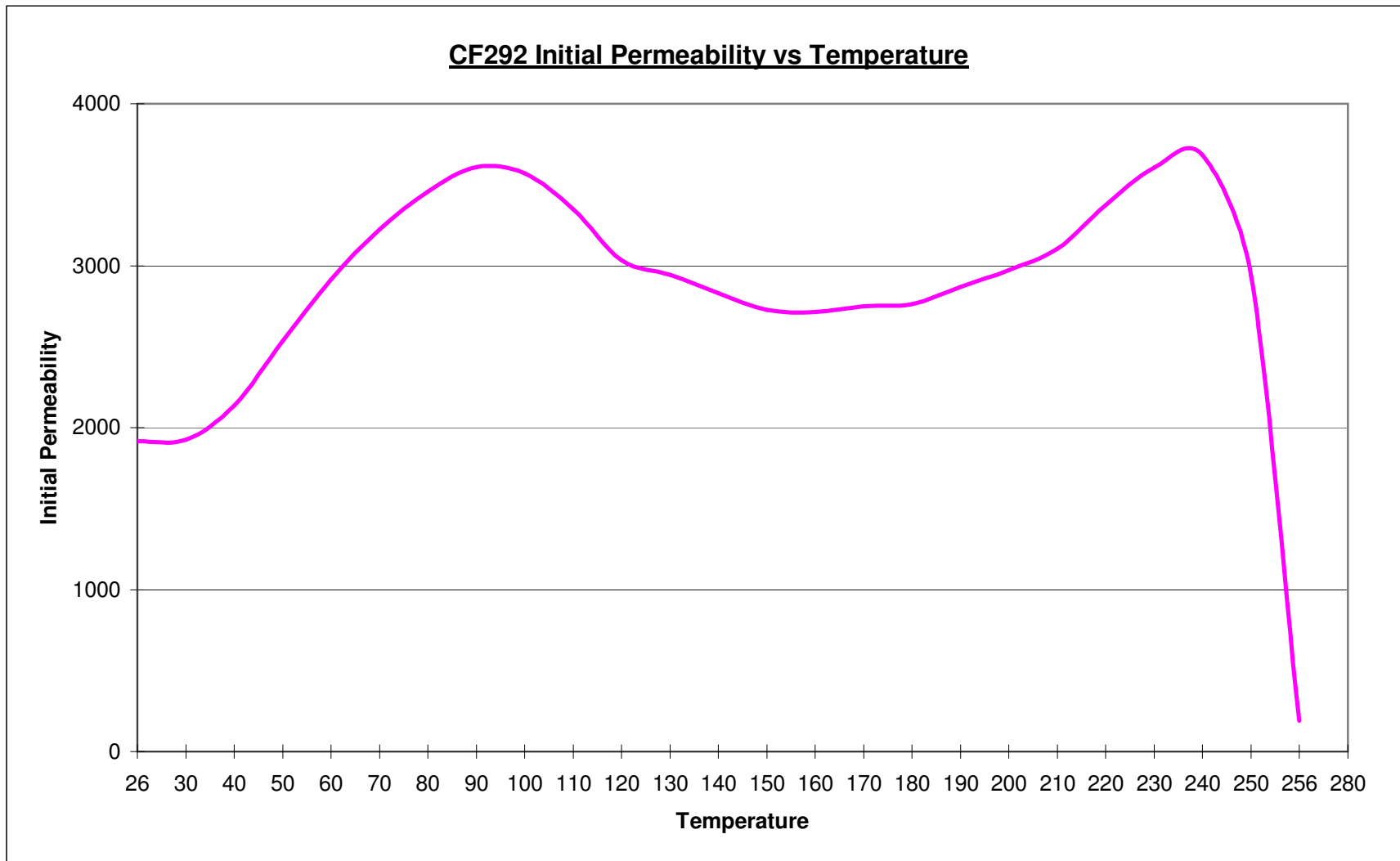


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CF292 High saturation Power Material



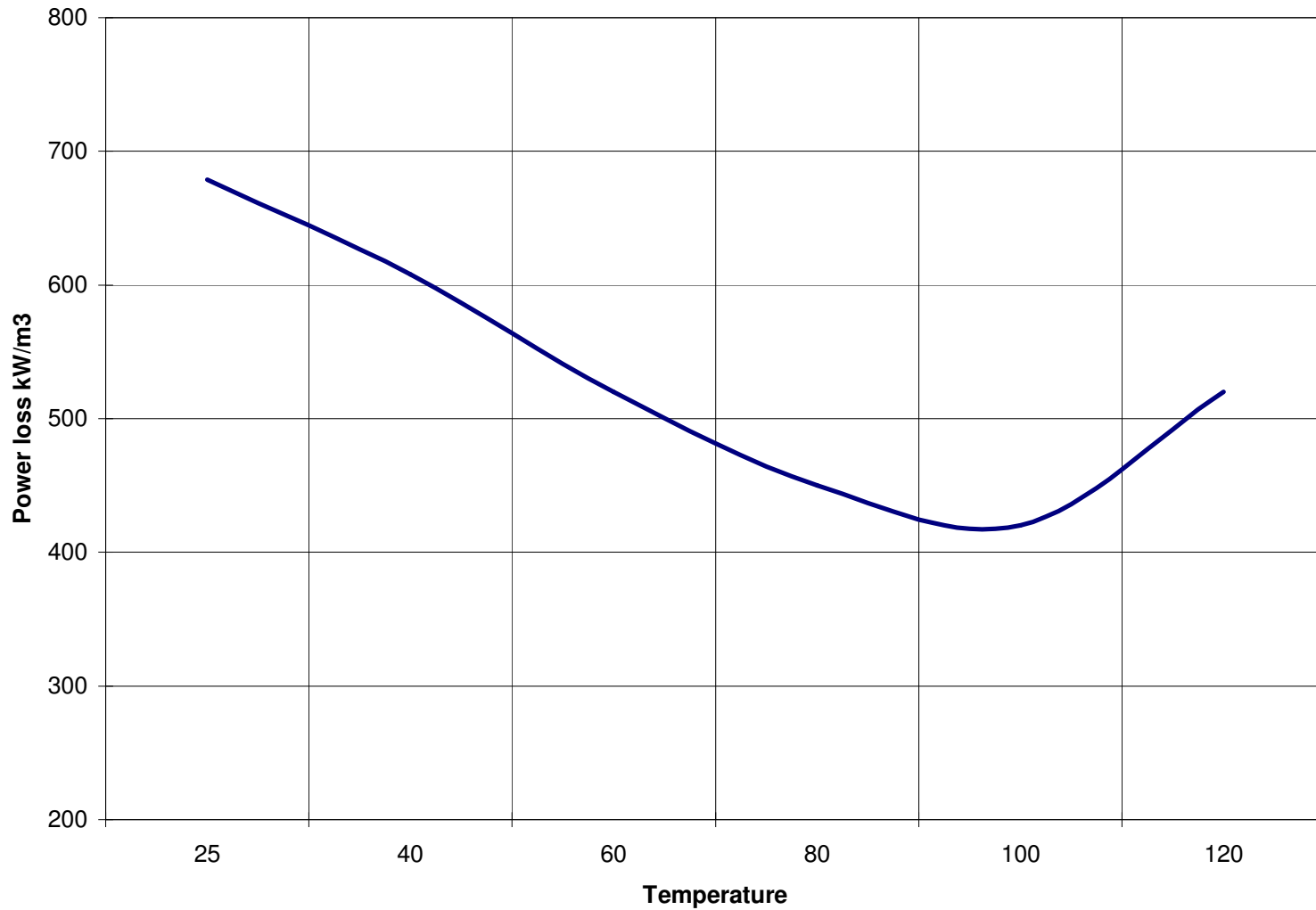
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Tested on standard toroids T25x15x12

CF292 High saturation Power Material

CF292 Power loss vs temperature



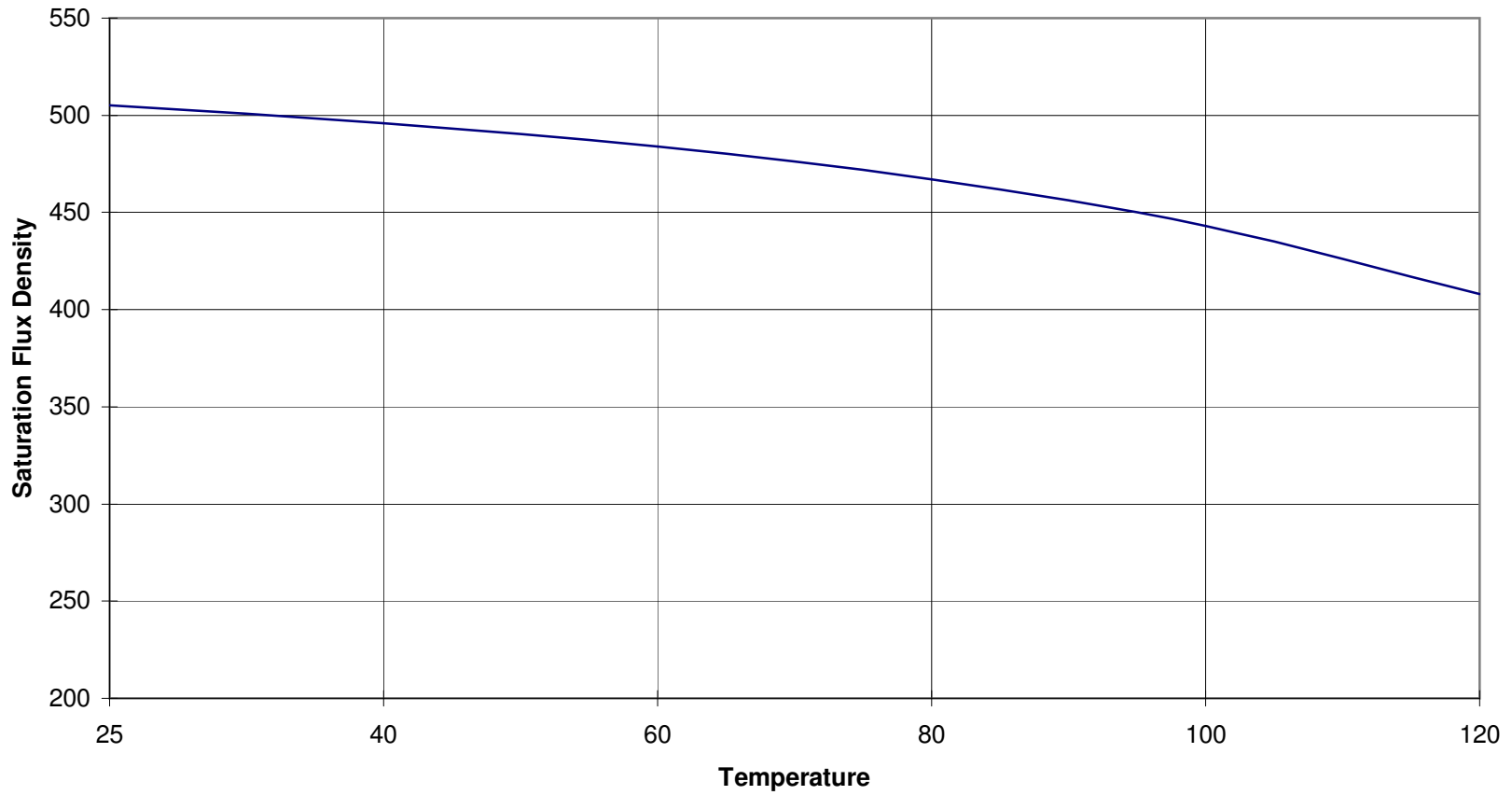
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Tested on standard toroids T25x15x12

CF292 High saturation Power Material

CF292 Bsat Vs Temperature



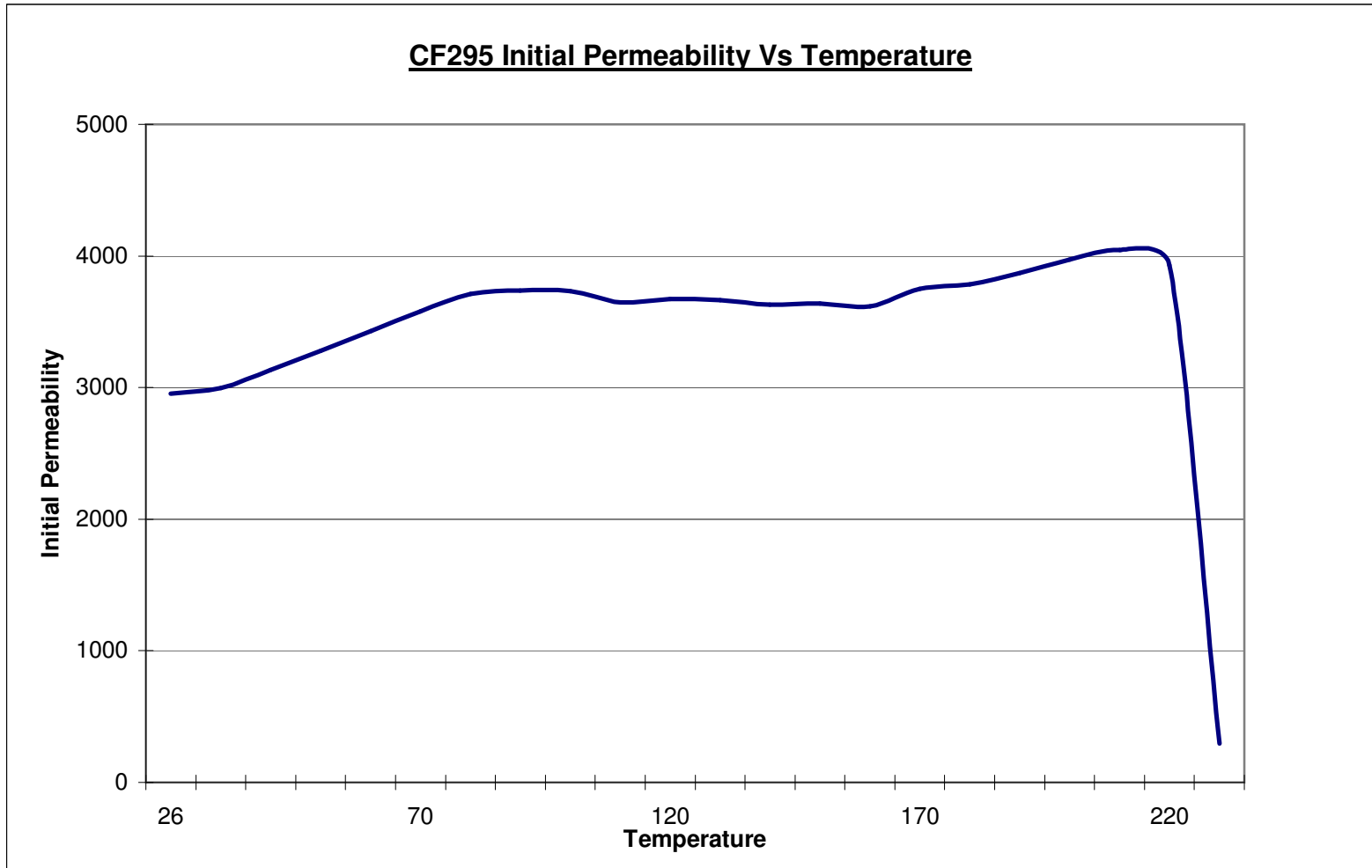
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Tested on standard toroids T25x15x12

Initial Data of Materials Under Development

CF295 with Power Losses stable with Temperature



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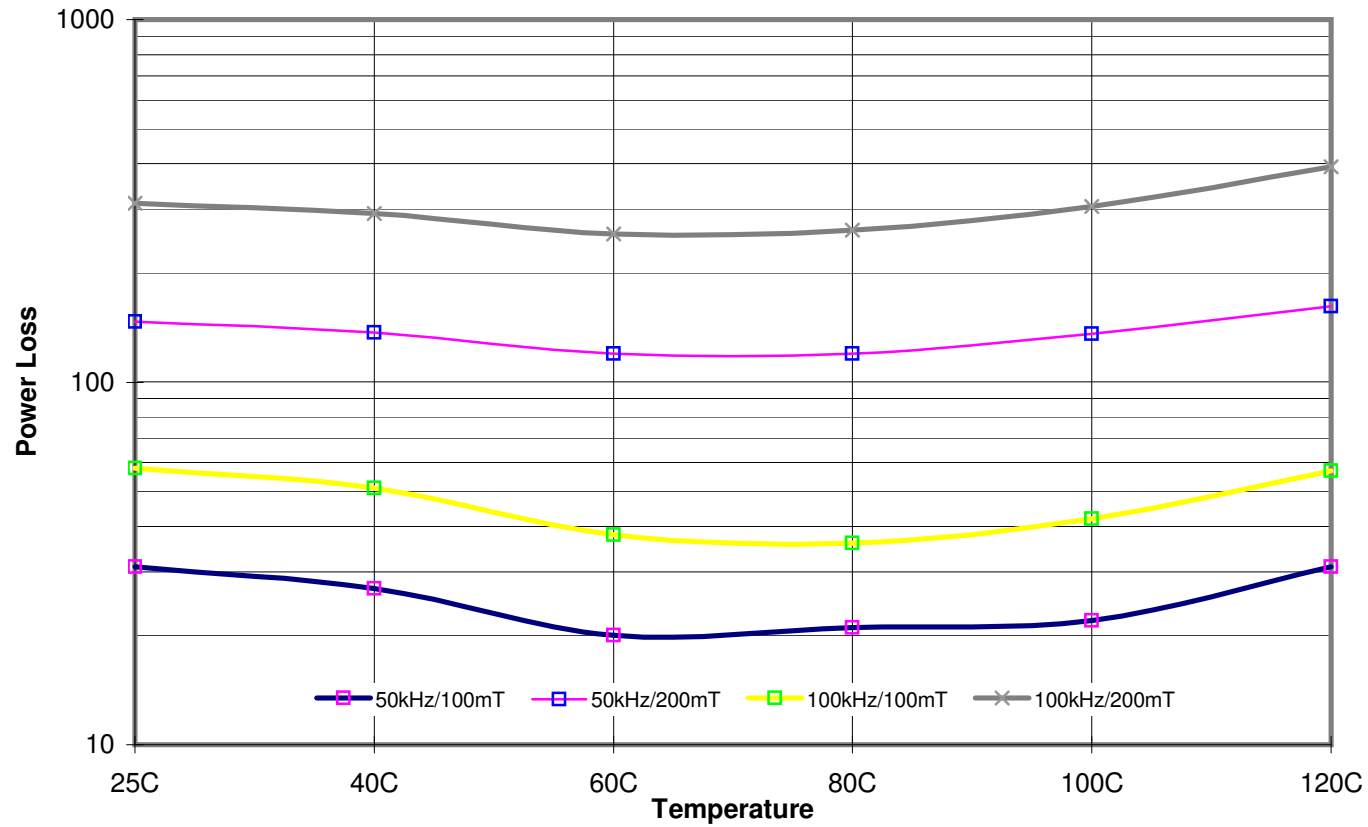
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Tested on standard toroids T25x15x12

Initial Data of Materials Under Development

CF295 with Power Losses stable with Temperature

CF295 Power Loss Vs temperature



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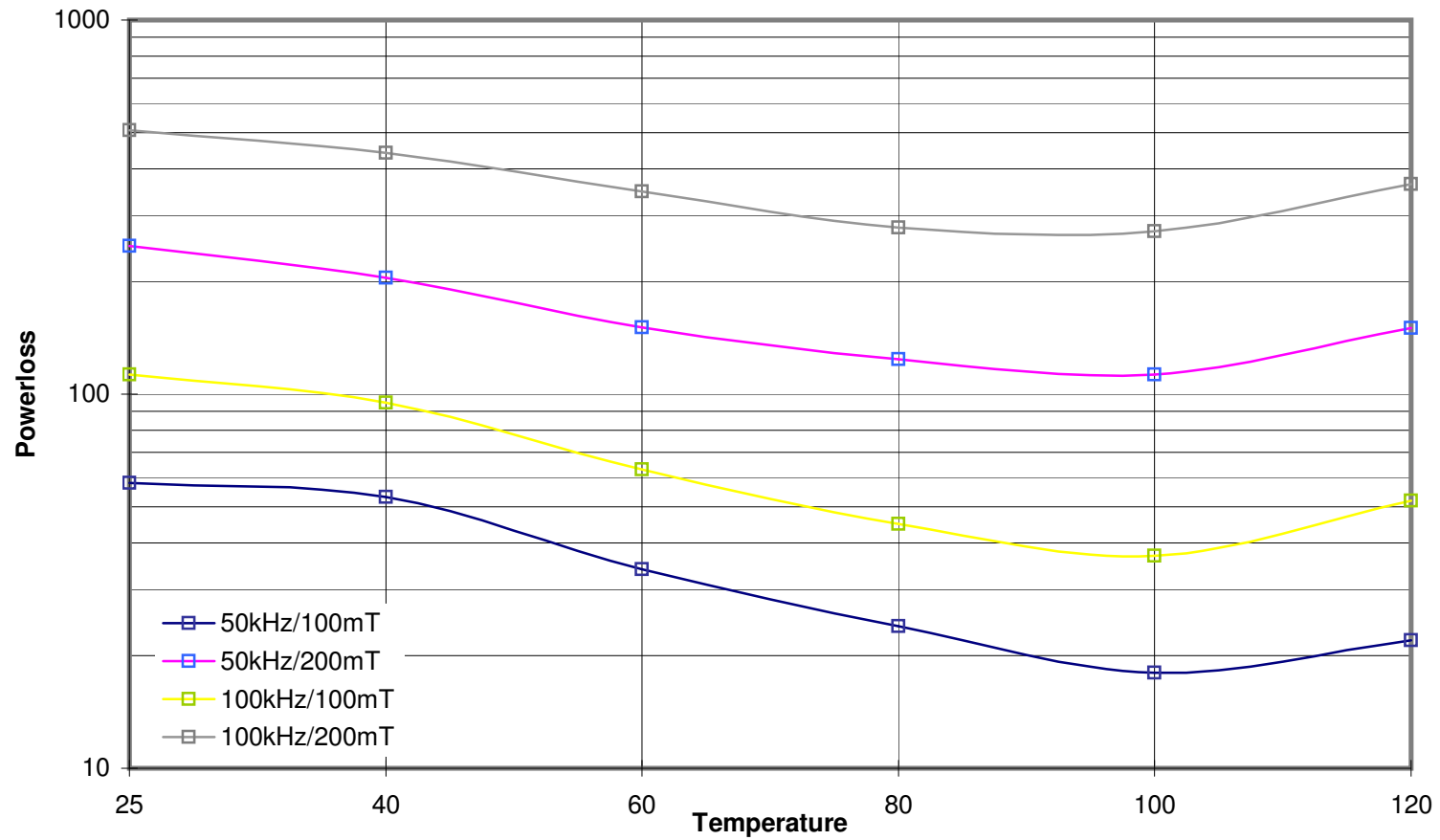
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Tested on standard toroids T25x15x12

Initial Data of Materials Under Development

CF297 with lowest Power Losses

CF297 Powerloss Vs Temperature



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Tested on standard toroids T25x15x12