

MATERIAL SPECIFICATIONS OF AlNiCo MAGNETS

СПЕЦИФИКАЦИЯ НА AlNiCo МАТЕРИАЛ

| Parameter | Symbol | Unit | | AlNi | | AlNiCo | | | | |
|---------------------------------|----------------------|------------------------------------|------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| | | | | AlNi 9/4 | AlNi 10/5 | AlNiCo 12/5 | AlNiCo 38/5 | AlNiCo 40/5 | AlNiCo 24/6 | AlNiCo 28/5 |
| Remanence | B _r | mT G | min. | 530 | 550 | 600 | 1230 | 1250 | 1050 | 1100 |
| | | | | 5300 | 5500 | 6000 | 12300 | 12500 | 10500 | 11000 |
| Polarization Coercitivity | H _{cB} | kA.m ⁻¹ Oe | min. | 40,00 | 46,40 | 48,00 | 48,00 | 49,60 | 51,20 | 49,60 |
| | | | | 500 | 580 | 600 | 600 | 620 | 640 | 620 |
| Max. energy Product | (BH) _{max.} | kJ.m ⁻³ MGsOe | min. | 8,80 | 10,40 | 12,00 | 38,40 | 40,00 | 24,00 | 28,00 |
| | | | | 1,10 | 1,25 | 1,50 | 4,80 | 5,00 | 3,00 | 3,50 |
| Curie- temperature | T _c | °K | inf. | 975 | 980 | 1055 | 1145 | 1145 | 1025 | 1135 |
| Coef. Of linear extension | | a.10 ⁻⁶ | inf. | 12,00 | 12,00 | 12,00 | 11,30 | 11,30 | 11,30 | 11,40 |
| Rockwell hardness | HRC | | inf. | 52 | 52 | 53 | 56 | 56 | 52 | 56 |
| Density | γ | g.cm ⁻³ | inf. | 7,00 | 7,10 | 7,20 | 7,30 | 7,30 | 7,20 | 7,30 |