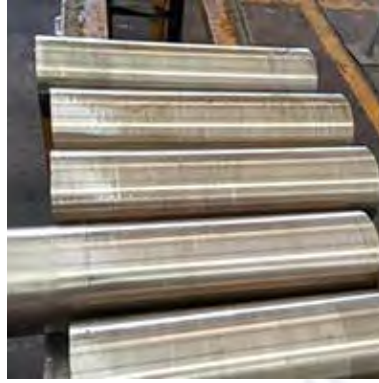




1J85

1. Brief introduction:

It's Nickel-Iron soft magnetic alloy with high initial magnetic permeability.

Used as transformers, mutual inductor, magnetic amplifiers, choke cores and magnetic shields operating in weak magnetic fields.

2. Chemical composition under GBn198-88 standard:

Grade	chemical composition, %								
	C	P	S	Cu	Mn	Si	Ni	Mo	Fe
	MAX								
1J85	0.03	0.02	0.02	0.2	0.3~0.6	0.15~0.3	79~81	4.8~5.2	Remainder

Remarks: If require adjustments for some chemical compositions, pls consult with us.

3. Physical and mechanical properties under GBn198-88 standard:

Grade	Resistivity ($\mu\Omega\cdot m$)	Density (g/cm ³)	Curie Point °C	High Saturated magnetostriction coefficient $\lambda\theta/10^{-6}$	Brinell hardness		Tensile strength Rm		Yield strength Rp 0.2		Elongation A %	
					HBS		N/mm ²		N/mm ²			
					cold-drawn &hard	soft	cold-drawn &hard	soft	cold-drawn &hard	soft	cold-drawn &hard	soft
1J85	0.56	8.75	400	0.5	-	-	-	-	-	-	-	-



Shanghai Hite Special Alloy Co., Ltd.
<https://www.hitealloy.com>

4. Main product types:

wire, rod, bar, strip, plate/sheet.

5. Common product grades:

1J85, Ni80Fe15Mo5, Permalloy.

6. 1J85 Source URL:

<https://www.hitealloy.com/product/1j85.html>