

18NiCrMo5

Lucefin Group

Cold-drawn +C (815M17) BS 970-3: 1991. Use only as reference

size mm Testing at room temperature (longitudinal)

size mm		R	Rp 0.2	A%	Kv	HB
from	to	N/mm ² min	N/mm ² min	min	J min	min
	19	1080	-	8	22	327

Mechanical properties tested after quenching, carburized layer, quenching at 830 °C oil, tempering 200 °C air

Forged UNI 8550: 1984. Use only as reference

size mm Testing at room temperature (longitudinal)

size mm		R	Rp 0.2	A%	Kcu	HB
from	to	N/mm ²	N/mm ² min	min (L)	J min (L)	for inform.
	11	1225-1520	980	8	30	361-432
11	25	1030-1325	785	9	32.5	311-384
25	40	930-1230	735	9	32.5	278-363
40	100	785-1080	590	10	35	234-327

Mechanical properties obtained on test blanks after core hardening + stress-relieving

L = longitudinal

UNI 7846:1978 **Jominy test HRC** grain size 5 min.

mm distance from quenched end

	1.5	3	5	7	9	11	13	15	20	25	30	35	40	45	50
min	39	38	36	34	31	29	27	25.5	23	21	20.5	20	-	-	-
max	49	48.5	48	46.5	45	43.5	41	40	37	35.5	34.5	33.5	33	32.5	32

Thermal Expansion 10⁻⁶ •K⁻¹**Mod. of Elasticity** long. GPa 240**Mod. of Elasticity** tang. GPa 96**Specific Heat Capacity** J/(Kg•K) 460**Thermal Conductivity** W/(m•K) 41**Density** Kg/dm³ 7.85**Specific Electric Resist.** Ohm•mm²/m 0.16**Electrical Conductivity** Siemens•m/mm² 6.25

°C 20

EUROPE	ITALY	CHINA	GERMANY	FRANCE	U.K.	RUSSIA	USA
EN	UNI	GB	DIN	AFNOR	B.S.	GOST	AISI/SAE
17NiCrMo6-4	18NiCrMo5	-	-	18NCD6	815M17	19HNM	4317