

**Material number (DIN)** 2.0855

**Material no. UNS (ASTM)** C18000

**International standard** R.W.M.A Class 3

**Abbreviation** CuNiCrSi

**Standard analysis**  
(percent by weight)

Ni	Cr	Si	Cu
2,4	0,4	0,7	remainder

**Classification**  
DIN 44 759 Class A 3/1  
R.W.M.A. Class 3

**Material description** Hardenable Cu-alloy with high electrical and thermal conductivity with a high degree of hardness and strength.

**Applications**

- Plungers in cold chamber die castmachine
- Dies for non-ferrous metal casting
- Brocadur CNCS is the Be-free alternative material to our quality Brocadur CCNB
- Plastic blow moulding and injection moulding

**Mechanical properties**  
(at 20° C)

Condition		hardened
hardness (average)	HB 10/2,5	180-220
tensile strength	N-mm <sup>2</sup>	min. 700
tensile yield strenght	N-mm <sup>2</sup>	min. 500
A 5 elongation	%	min. 5
Modules of elasticity	N-mm <sup>2</sup>	115 x 10 <sup>3</sup>
Softening temp.	°C	min. 480

**Physical properties**  
(at 20° C)

Specific weight	g cm <sup>3</sup>	8,7
Specific heat	J g.K	0,42
Thermal conductivity	W m.K	160
Coefficient of expansion (20-200° C)	1 K	20-100° C 16x10 <sup>6</sup>
Electrical conductivity	MS m	28 MS/m 48% IACS