KHP®7026 (CuNi2Si)

Standard Designation

EN CW 111C / UNS C70260

Chemical Composition

Cu [%]	Ni [%]	Si [%]	
Balance	2	0.6	

Description / Applications

KHP®7026 belongs to the group of CuNiSi (Corson type) alloys. KHP®7026 combines a high strenght and a good electrical conductivity.
Applications: connector springs, tabs, contact springs, switches, relays, leadframes

Physical Properties[1)]

Density	8.8 g/cm³	Thermal expansion coefficient	$17 \cdot 10^{-6}$/K
Electrical conductivity	23 m/Ω·mm² 40 % IACS[2)]	Modulus of elasticity	130 GPa[3)]
Thermal conductivity	161 W/m·K		

[1)] Guideline values for soft temper, measured at room temperature

[2)] IACS = International Annealed Copper Standard

[3)] 1 GPa = 1 kN/mm²

Processing information

Weldability	good	Stress corrosion cracking	none
Solderability	good		

Mechanical properties

Temper	Tensile Strength Rm [MPa]	Yield Strength Rp0,2 [MPa]	Elongation A50 [%]	Hardness HV	Bendability[1)]			
					90° r/t[2)]		180° r/t[2)]	
					GW[3)]	BW[4)]	GW[3)]	BW[4)]
R580/H120	580 - 660	min. 520	min. 12	175-205	0.5	0.5	0.5	1
R620/H170	620 - 710	min. 540	min. 10	190-215	0.5	0.5	1	1
R650/H200	650 - 730	min. 570	min. 7	195-225	1	1	1.5	1.5
R720/H220	min. 720	min. 650	min. 3	min. 215	1.5	2	1.5	2

[1)] The r/t values are valid for a strip thickness up to 0.6 mm (without crack). The data refer to rolled-to-temper material and a width of the bending area of 5 mm. V-shape bend test according to ISO 7438

[2)] r = inner radius, t = thickness

[3)] GW = good way

[4)] BW = bad way

The details in this datasheet are exclusively meant for general information only. They correspond to the state of knowledge at the time of issue and cannot replace the examination by our customers. Liability cannot be derived from the information.

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