

DIM L-210 Co[©]

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Super alloy / high-performance material
CoCrNiMo

Characteristics

high resistance to wear
high toughness
high tensile strength
high ductility
high elasticity
high material fatigue resistance
high chem. corrosion resistance
reverse bending resistance
abrasion resistant
good sliding properties

non-magnetic
highly polished
cold hardening
Tensile strength R_m N/mm²: up to 1110
yield strength N/mm²: up to 734
Elongation: 43 %
thermal conductivity W/mK: 12,5

Hardness of pure laser welding wire: approx. 36 HRC
up to 45 HRC (solidified)

Fields of application

In molds and mechanical engineering:
Hot runner nozzles (high stability times),
partially against extreme wear,
gg. chem./electrochem. corrosion.
Large range of applications including:
press- / acid- and steam valve,
valve seats,
shut-off and throttling valves,
chemical filter, seals,
oil industry, aerospace,
engine components, flexure,
torsion spring, investment casting parts CoCr,
forge alloy CoCr, alloy out CoNiCrMo and
CrNiWCo – L605, Gas pressure measuring device
and much more.