Brass, nickel-plated

General information

Designation	ISO 426/2	:	CuZn39Pb3
Material number	DIN 17'660	:	2.0401
Nickel plating	EN ISO 4042	:	Cu/Ni 3b, layer thickness min. 3µm

Physical data

Density		8.44	g/cm^3
Elect. conductivity		16	MS/m

Mechanical data

Tensile strength	Rm	:	>500	N/mm^2
Yield strength	Rp0.2	:	>390	N/mm^2
Ultimate strain		:	>8	%
Hardness		:	140-175	HV

Composition

Copper	Cu	:	57.0 – 59.0	%
Lead	Pb	:	2.5 – 3.5	%
Aluminum	Al	:	<0.05	%
Iron	Fe	:	<0.3	%
Nickel	Ni	:	<0.3	%
Tin	Sn	:	<0.3	%
Others		:	<0.2	%
Zinc	Zn	:	Residual	

Chemical resistance

Brass nickel-plated is resistant under normal dry atmosphere, against fresh water, water vapor, mineral oils, fuels, cool- and cutting solutions. It is partly resistant under sea and industrial atmosphere, against neutral and alkaline salt solutions as well as organic compounds. Brass will be attacked by acids, halogens, chloride and chloridous solutions (sea water, brackish water), atmospheres with high humidity and increased temperatures. Chloric atmospheres and damp ammonia gas can cause stress corrosion.

AGRO AG

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AGRO AG
Korbackerweg 7
CH-5502 Hunzenschwil

Telefon: +41 (062) 889 47 47
Telefax: +41 (062) 889 47 50

E-Mail: info@agro.ch
Internet: http://www.agro.ch