

YELLOW ALLOY FOR 9-14 KT WORKING

Title **14** Colour **Yellow** [L: 85,6 a: 1,7 b: 18,4 c:]

Product description

OG445L is a soft yellow alloy for mechanical working. This is a versatile product which possesses an excellent quality:price ratio. Offers good workability.

Recommended applications

OG445L is an alloy for general purposes in mechanical working. If a more yellow-greenish colour is required, the alloy composition can be modified with the addition of silver, according to the following ratio: Au: 585 / Ag: 75 / OG445L: 340. After this modification, liquidus temperature (T_{liq.}) will be about 870°C. Casting and graining temperatures reported in this technical sheet will be consequently reduced of about 20°C.

Physical-chemical properties

Precious metal of reference

Ag 3,0%

Temperatures (°C)

Solidus	855
Liquidus	890
Range	35

Density (g/cm³) 12,7

Mechanical characteristics

Tensile strength (R_m) [N/mm²]

Yield strength (R_{p0.2}) [N/mm²]

Elongation (A) [%]

"As cast" hardness [HV 0.2] 118

Hardness after 70% red. [HV 0.2] 255

Hardness after annealing [HV 0.2]

OG445L

Technical chart

Last revision

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Pag. 2/2

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Instructions for use

Mechanical working

Pouring temperature (°C) 970-1005

Recommended thickness reduction 70,0%

Annealing treatment

Sheet thickness	Temperature (°C)	Minutes
5 - 14 mm	620-660	35
1 - 5 mm	620-660	30
0,2 - 1 mm	620-660	25

Quenching

Quench directly in water

Notes

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