

TALLG'87 ESR

TALLG'87 ESR is special grade of TEI Alloys. This grade is improved from 1.4057. TALLG'87 ESR supplies longer mold life with its extra fine structure. TALLG'87 ESR has 4 repeated heat treatment that includes ESR which supplies very clean microstructure. By this microstructure, it supplies perfect mechanical properties that classical 1.4057

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Cr	Mn	Si	C	P	S	Fe	Ni
15,5 - 17,0	max 1,0	max 1,0	0,12 - 0,22	max 0,04	max 0,015	balance	1,5 - 2,5

***** TALLG'87 ESR has nearly same analyse with 1.4057. With min %2,4 Ni content, it supplies more available preoperties for glass molds.

density (kg/dm³) 7.70

electrical resistivity at 20 °C (Ω mm² /m) 0.70

magnetizability yes

thermal conductivity at 20 °C (W/m K) 25

specific heat capacity at 20 °C (J/kg K) 460

thermal expansion (K⁻¹)

20 – 100 °C: 10.0 x 10⁻⁶

20 – 200 °C: 10.5 x 10⁻⁶

20 – 300 °C: 10.5 x 10⁻⁶

20 – 400 °C: 10.5 x 10⁻⁶

	Yield Strength (Mpa) (20 C)	Tensile Strength (Mpa) (20 C)	Elongation A5 (%)	Hardness (Vickers)
Annealed	520	< 950	15 - 20	< 290
Qench Hardened	1000	1500	3	430

The information given in this data sheet about the condition or availability of the material is not a guarantee for its properties, it only serves as a statement. The information provided is suitable for our own experience as well as for general experience. No guarantee is given for the processing and application results of the products.