

NICKEL ALLOY MATERIAL REFERENCE

INCONEL ALLOY 600

MATERIAL DATA SHEET

UNS N06600 / W.Nr. 2.4816

Composition, ASTM product references and typical tensile properties

ALLOY 600**UNS N06600****CHEMICAL LIMITS****ASTM REFERENCES****MECHANICAL DATA****PRODUCT FORMS**

Technical reference prepared for product and project requirement review.

Confirm final material, dimensions, testing and documentation before ordering.

UNS N06600 / W.Nr. 2.4816

Technical data navigation

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REFERENCE NOTE

Source dimensional values and footnotes are retained. Confirm the applicable material, grade, schedule and project specification before ordering.

MATERIAL IDENTITY AND SOURCE VALUES

Composition and ASTM references

Values are reproduced from the supplied Alloy 600 source sheet without changing the stated limits.

COMMON DESIGNATION	MATERIAL NUMBERS
Inconel 600 / Alloy 600	UNS N06600 / 2.4816

Chemical composition, %

Ni + Co 72.0 min	Cr 14.0-17.0	Fe 6.0-10.0	C .15 max
Mn 1.00 max	S .015 max	Si .50 max	Cu .50 max

ASTM product specifications stated in the source

Product form	ASTM specification
Seamless pipe	B167
Welded pipe	B517
Seamless tube	B163
Welded tube	B516
Sheet / plate	B168
Bar	B166
Forging	B564
Fitting	B366

Reference note: confirm the current product specification, edition, delivery condition and project requirements before ordering.

TYPICAL SOURCE VALUES

Mechanical properties and product forms

Typical room-temperature tensile properties of annealed material, as stated in the supplied source.

Product form	Condition	Tensile, ksi	0.2% yield, ksi	Elongation, %	Hardness, HRB
Rod & bar	Cold-drawn	80-100	25-50	35-55	65-85
Rod & bar	Hot-finished	80-100	30-50	35-55	65-85
Tube & pipe	Hot-finished	75-100	25-50	35*55	-
Tube & pipe	Cold-drawn	80-100	25-50	35-55	88 max
Plate	Hot-rolled	80-105	30-50	35-55	65-85
Sheet	Cold-drawn	80-100	30-45	35-55	88 max

Source notation retained: the hot-finished tube and pipe elongation is printed as 35*55; no explanatory footnote was supplied.

Available forms listed in the supplied source

- Sheet
- Plate
- Bar
- Pipe & tube (welded and seamless)
- Fittings
- Wire

USE OF TYPICAL VALUES

The mechanical values above are typical, not procurement acceptance limits. Final requirements follow the applicable ASTM product specification, purchase order and project documentation.

Send your requirement

Send a drawing, product list, size, material grade, standard, schedule or wall thickness, testing and project document requirements.

EMAILinfo@lkiping.com**WHATSAPP**[+86 139 0327 9556](https://wa.me/8613903279556)**TECHNICAL RESOURCES**www.lkiping.com/technical/

RESPONSE AND DOCUMENT COORDINATION

Initial enquiries are answered within 24 hours, including weekends, by email or WhatsApp. Drawing review, material/standard matching and project document requirements can be discussed and organized with the buyer. Third-party inspection can be buyer-nominated or coordinated on request.

ADDRESS

Longtan Industrial Zone, Yanta Road, Yanshan County, Cangzhou City,
Hebei Province, China