MATERIAL DATA SHEET

Aluminum 3003-O extruded bar, rod, shape, tube and wire (QQ-A-200/1D)

Historical Aluminum 3003-O extruded bar, rod, shape, tube and wire requirements from public-release QQ-A-200/1D Table II.

Field	Value
Material ID	usfed-3003-o-extruded-products
Category	Metal
Condition	Aluminum 3003-O, historical QQ-A-200/1D minimums | extruded bar, rod, shape, tube and wire
Unit system	Common SI
Unit contract	Material properties stored in SI engineering units.
Generated	2026-11-15 23:01

Source and Validity

Field	Value
Quality	Standard minimum
Design release allowed	No
Source family	Government materials specification
Confidence	Standard minimum
License	Open
Source note	Independent transcription from official public-release historical federal specifications.
Citation	U.S. Federal Specification QQ-A-200/1D, Aluminum Alloy 3003, Bar, Rod, Shapes, Tube, and Wire, Extruded, 23 June 1983, Table II, PDF page(s) 3; official DLA document record https://quicksearch.dla.mil/qsDocDetails.aspx?ident_number=50828. DLA identifies the document as Distribution Statement A.
Valid temperature	21 ... 21 degC (Room-temperature historical federal-specification requirements limited to the exact alloy, temper, product form, size range and direction stated by this card.)
Valid pressure	Pressure dependence is not represented.
Valid phase / condition	Aluminum 3003-O, historical QQ-A-200/1D minimums
Uncertainty	Historical specified values with explicit SI conversion. Some cards conservatively aggregate multiple table thickness bands; see property applies_to text.
Last reviewed	2026-08-02
Reviewer	scripts/import_us_federal_aluminum_public.py
Review status	Checked
Review scope	Checked official DLA record identity and Distribution Statement A, PDF hash, revision, Table II temper/form/size scope, minimum/maximum semantics, and SI conversions.

Field	Value
Notes	Canceled historical specification; not a current supplier certificate or design allowable.
License ID	US-DOD-DISTRIBUTION-STATEMENT-A
License URL	https://www.dodcui.mil/Distribution-Statements/
Attribution	U.S. Federal Government / Defense Logistics Agency

Material Condition

Field	Value
Condition	Aluminum 3003-O, historical QQ-A-200/1D minimums
Temper	O
Heat treatment	as defined by the historical temper designation
Product form	extruded bar, rod, shape, tube and wire
Thickness / diameter range	all sizes listed by the specification
Test direction	longitudinal / parallel to direction of working
Processing route	extruded
Temperature range	21 ... 21 degC
Notes	Room-temperature historical federal-specification requirements limited to the exact alloy, temper, product form, size range and direction stated by this card. Confirm a current procurement specification and material test report before use.

Properties

Mechanical

Property	Value	Unit	Type	Applies to
Ultimate tensile strength, L	96.527	MPa	Historical Specified Minimum	Aluminum 3003-O; extruded bar, rod, shape, tube and wire; all sizes listed by the specification; longitudinal/parallel-to-working direction
Maximum ultimate tensile strength, L	131.0	MPa	Historical Specified Maximum	Aluminum 3003-O; extruded bar, rod, shape, tube and wire; all sizes listed by the specification; longitudinal/parallel-to-working direction
Tensile yield strength, L	34.474	MPa	Historical Specified Minimum	Aluminum 3003-O; extruded bar, rod, shape, tube and wire; all sizes listed by the specification; longitudinal/parallel-to-working direction

Engineering note: seed solid-material values are reference values only. Verify against the project material specification or supplier data sheet before release.