

Specification & Qualification Guide

Companion to the WKDT technical catalogues | October 2026

Turn a catalogue selection into a clear purchase specification.

Catalogue values describe documented product options. An order needs the selected grade, tolerances, test conditions and acceptance criteria agreed in writing. This guide identifies the information to complete; it does not add unverified product performance claims.

Record for every selected grade

1. Application, operating environment and material identity.
2. Parameter, unit, target, tolerance and minimum/maximum basis.
3. Test method, specimen direction and conditioning.
4. Approved sample ID and specification revision.
5. Lot identification, inspection scope and agreed documents.
6. Packaging, quantity, delivery terms and change approval.

Read the numbers correctly

A typical value is not a guaranteed minimum. A blank table cell is not zero. Paired directional values must retain their direction. Temperature limits require time and process conditions. A TDS describes a grade; a COA reports a particular batch; an SDS describes safe handling for the supplied formulation.

Sections

2. Reinforcement fabrics & mats
3. Vacuum bagging & infusion materials
4. Meshes & laid scrims
5. Treated fabrics, tapes & cords
6. Nonwovens, veils & felts
7. Films & release liners
8. Sandwich cores & composite sheets
9. Food ingredients & additives
10. Polymer chemicals & curing agents

Reinforcement fabrics & mats

CATALOGUE COVERAGE

Mass, weave, yarn tex, directional construction, dimensions and selected mechanical properties.

13 product families | 339 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Areal mass & geometry

Record: g/m²; mm; ends/cm

Nominal value AND tolerance; measurement method and conditioning.

Sizing & resin compatibility

Record: Resin family; finish; %

Specify resin system, sizing requirement and sample wet-out acceptance.

Strength & direction

Record: N/50 mm or MPa; warp/weft

Keep strip tensile load separate from stress; record direction and method.

Approval record

Selected grade / specification revision: _____

Target + tolerance / test method: _____

Reference sample / batch: _____

Required documents / inspection scope: _____

Customer approval / date: _____

Use the current grade-specific TDS, batch COA and agreed acceptance specification. Request missing data from WKDT before committing the order.

Vacuum bagging & infusion materials

CATALOGUE COVERAGE

Film gauge, polymer, dimensions and listed maximum temperatures; fittings and consumable options.

12 product families | 106 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Thermal cycle

Record: °C; dwell time; pressure

Confirm temperature WITH exposure duration, resin and process pressure.

Leak tightness & elongation

Record: Pressure decay; %

Agree the assembly leak test and allowable decay; film elongation where required.

Release & permeability

Record: Perforation; flow; surface

Specify release pattern, resin flow and required post-removal surface.

Approval record

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Meshes & laid scrims

CATALOGUE COVERAGE

Mass, grid, fibre/yarn, binder and selected tensile/elongation data.

2 product families | 23 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Grid & dimensional stability

Record: mm; g/m²; %

Agree grid tolerance, roll width and distortion limits.

Retained strength

Record: N/50 mm; % retained

If alkali exposure matters, specify medium, time, temperature and residual strength.

Binder & adhesion

Record: Binder chemistry; substrate

Confirm binder compatibility and adhesion on the intended substrate.

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Treated fabrics, tapes & cords

CATALOGUE COVERAGE

Base/coating mass, coating type, thickness, construction and dimensions.

10 product families | 146 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Thermal performance

Record: °C; duration; test setup

Specify continuous/intermittent exposure separately; do not infer fire performance from fibre type.

Coating & mechanical durability

Record: g/m²; adhesion; flexing

Agree coating faces, add-on tolerance, adhesion and flexing conditions.

Finished dimensions

Record: mm; g/m; tolerance

Confirm finished gauge, bore/diameter, cut length and allowable variation.

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Reference sample / batch: _____

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Customer approval / date: _____

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Nonwovens, veils & felts

CATALOGUE COVERAGE

Mass, fibre/process, width, thickness and selected veil performance data.

10 product families | 107 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Mass & thickness uniformity

Record: g/m²; mm; test pressure

Record tolerances, sampling across roll width and thickness measurement pressure.

Functional performance

Record: Airflow; filtration; absorption

Select only application-relevant tests; record pressure differential, challenge medium and conditioning.

Strength & surface

Record: MD/CD load; lint; wettability

Agree direction, wet/dry condition, lint and wetting requirements.

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Target + tolerance / test method: _____

Reference sample / batch: _____

Required documents / inspection scope: _____

Customer approval / date: _____

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Films & release liners

CATALOGUE COVERAGE

Polymer, thickness, surface and selected release, adhesion, tensile and optical values.

15 product families | 89 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Thickness & winding

Record: μm ; mm; m; core ID

Specify thickness tolerance, usable width, roll length, core and winding direction.

Release or adhesion

Record: Force/width; speed; angle

Record adhesive, substrate, dwell, peel speed, peel angle and conditioning. Values without these are not directly comparable.

Functional surface

Record: mN/m; haze; COF; barrier

Choose surface treatment side, ageing interval and relevant optical, friction or barrier tests.

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Reference sample / batch: _____

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Sandwich cores & composite sheets

CATALOGUE COVERAGE

Density, dimensions and selected compression, shear, flexural or thermal data.

5 product families | 37 existing specification rows

COMPLETE BEFORE ORDER APPROVAL

Geometry & finish

Record: kg/m³; mm; cell size

Agree density tolerance, thickness, cell orientation and groove/perforation format.

Mechanical basis

Record: MPa; direction; average/minimum

Distinguish typical averages from specified minimums; record direction and specimen conditions.

Process compatibility

Record: Resin; °C; pressure; moisture

Confirm resin uptake, cure cycle, bonding system and moisture conditioning.

Approval record

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Target + tolerance / test method: _____

Reference sample / batch: _____

Required documents / inspection scope: _____

Customer approval / date: _____

Use the current grade-specific TDS, batch COA and agreed acceptance specification. Request missing data from WKDT before committing the order.

Food ingredients & additives

CATALOGUE COVERAGE

Six product families; selected assay, moisture or viscosity reference values.

6 product families | product selection references

COMPLETE BEFORE ORDER APPROVAL

Identity & grade

Record: Chemical identity; grade; origin

Confirm exact product, hydration form where relevant, intended use and destination-market grade.

Functional & purity limits

Record: Assay %; viscosity; particle size

Request product-specific assay and impurity limits; viscosity needs concentration, temperature and method.

Batch & handling documents

Record: COA; allergens; shelf life

Agree microbiological/contaminant limits, allergen declaration, packaging, storage and shelf life as applicable.

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Target + tolerance / test method: _____

Reference sample / batch: _____

Required documents / inspection scope: _____

Customer approval / date: _____

Use the current grade-specific TDS, batch COA and agreed acceptance specification. Request missing data from WKDT before committing the order.

Polymer chemicals & curing agents

CATALOGUE COVERAGE

Six product families; selected identities, purity and active-oxygen reference values.

6 product families | product selection references

COMPLETE BEFORE ORDER APPROVAL

Exact formulation

Record: Active content %; carrier; grade

Identify the complete supplied formulation; a generic chemical name alone is not a purchase specification.

Process response

Record: Resin; cure profile; test conditions

Agree application, process conditions and qualification trials for the selected grade.

Transport & storage

Record: Current grade-specific SDS

Obtain current handling, transport, storage and shelf-life requirements for the exact formulation. Do not generalize from a product family.

Approval record

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Target + tolerance / test method: _____

Reference sample / batch: _____

Required documents / inspection scope: _____

Customer approval / date: _____

Use the current grade-specific TDS, batch COA and agreed acceptance specification. Request missing data from WKDT before committing the order.