

Why is there no single property change for normalizing?

Normalizing Steel: Definition, Property Effects and EN 10216-2 Data

Factor	How it affects the result
Chemical composition	Carbon and alloy content alter transformation kinetics and hardenability.
Section size / wall thickness	Surface and core cooling rates differ; thickness can affect the permitted treatment route.
Austenitizing temperature	Must stay within the grade-specific range; excessive temperature can promote grain growth.
Prior manufacturing route	Hot finishing, cold drawing or prior forming changes the starting microstructure.
Subsequent treatment	For +NT, tempering is part of the final condition and property control.

Source / basis: <https://niktrd.com/normalizing>