

17-4PH

STAINLESS STEEL

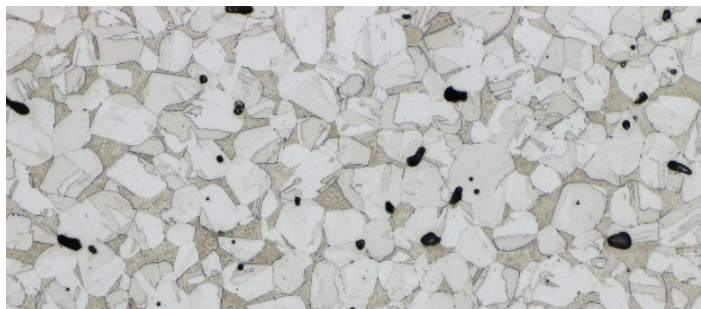
17-4PH is a precipitation-hardening martensitic stainless steel known for its high strength, wear resistance, corrosion resistance, and weldability.

This versatile material finds application in diverse industries like petroleum, chemical, and aerospace, where it is used for heavy-duty machine components, couplings, screws, drive shafts, and nuts. 17-4PH can be heat-treated to meet specific mechanical requirements.

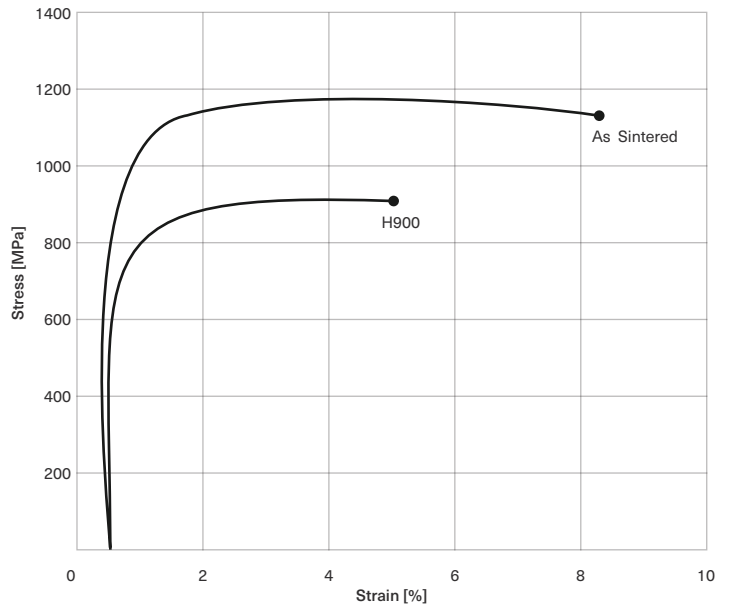
Composition	Weight%
Iron	Balance
Chromium	16.5
Nickel	4
Copper	3.5

Features & Benefits
High strength & wear resistance
Moderate corrosion resistance
Weldable
Hardenable

Physical Properties	As Sintered	H900
Ultimate tensile strength [MPa]	950	1250
Yield strength [MPa]	730	1100
Elongation [%]	4	7
Hardness [HRC]	27	38
Relative density [%]	98	98



TENSILE PROPERTIES – AS SINTERED VS H900



These representative data were tested, measured, or calculated using standard methods and are subject to change without notice. Markforged makes no warranties of any kind, express or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use, or warranty against patent infringement; and assumes no liability in connection with the use of this information. The data listed here should not be used to establish design, quality control, or specification limits, and are not intended to substitute for your own testing to determine suitability for your particular application. Nothing in this sheet is to be construed as a license to operate under or a recommendation to infringe upon any intellectual property right.