

Low Co Maraging Steel Powder for Additive Manufacturing

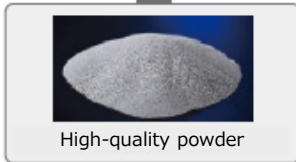
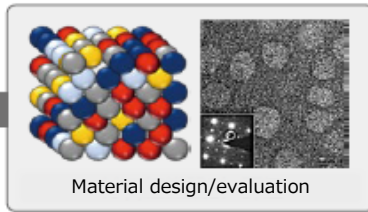
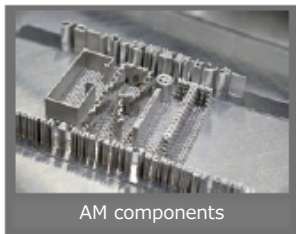
ADMUSTER® W285P



Summary

- This material is not a specified chemical substance and has comparable strength to that of conventional maraging steel, but with less cobalt content. It is designed to suit the additive manufacturing process.

Features

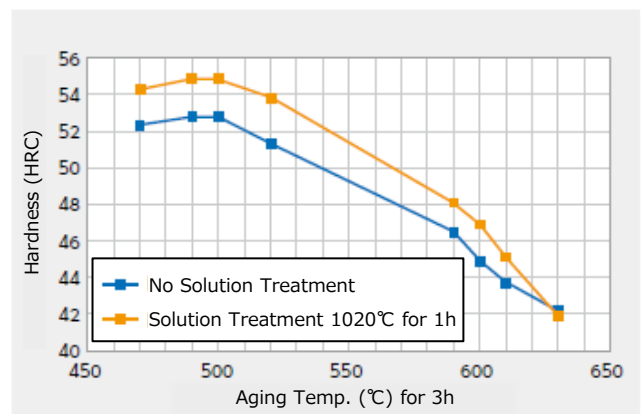


Steel	Composition [wt.%]					
	Fe	Ni	Co	Mo	Ti	Si
Conventional Maraging Steel	Bal.	17-19	8.5-9.5	4.5-5.2	0.6-0.8	<0.1
W285P	Bal.	18.0	0.5	2.0	2.0	0.3

Properties

		W285P (SLM)		Conventional Maraging Steel
Solution treatment		No treatment	1020°C×1h	940°C×2h
Aging treatment		490°C×3h	490°C×3h	490°C×6h
Hardness (HRC)		53.4	54.9	50-57
Ts (Mpa)	Dir. A	1940	2050	2080
	Dir. B	1860	2050	2080
0.2Ys (Mpa)	Dir. A	1870	1930	2010
	Dir. B	1780	1930	2000
Elongation (%)	Dir. A	10.4	8.7	4.0
	Dir. B	12.6	8.9	4.0

Dir. A: Horizontal to base plate
Dir. B: Vertical to base plate



Aging curve of W285P

Contact Information

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Please contact this Web. Site
<https://www.proterial.com>

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