

Low Co Maraging Steel Powder for Additive Manufacturing

ADMUSTER-YAG285AM

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

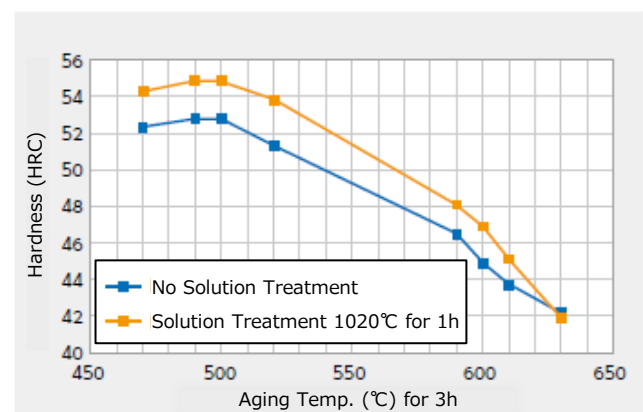


Steel	Composition [wt.%]					
	Fe	Ni	Co	Mo	Ti	Si
Conventional Maraging Steel	Bal.	17-19	8.5-9.5	4.5-5.2	0.6-0.8	<0.1
YAG285AM	Bal.	18.0	0.5	2.0	2.0	0.3

Properties

		YAG285AM (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 YAG285AM

Contact Information

Proterial, Ltd.

R&D Division, AM Solution CV

ADMUSTER is registered trademark of Proterial, Ltd.

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

The characteristics, photos, charts and evaluations of this catalog are representative value by our test data, it does not guarantee the quality of the product. This catalog and its contents are subject to change without notice.



AMSC23-057