

Materials List for

Improving the Combustion Performance of a Hybrid Rocket Engine using a Novel Fuel Grain with a Nested Helical Structure

Zezhong Wang^{1,2}, Xin Lin¹, Fei Li¹, Zelin Zhang¹, Xilong Yu^{1,2}

¹Institute of Mechanics, Chinese Academy of Sciences ²School of Engineering Science, University of Chinese Academy of Sciences

Corresponding Author

Xin Lin
linxin_bit@163.com

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Materials

Name	Company	Catalog Number	Comments
3D printer	Raise3D	N2 Plus	305 × 305 × 605 mm
3D drawing software	Autodesk	Inventor	
ABS	Raise3D	ABS black	1.75 mm
Camera	Sony	A6000	
Carbon	Aibeisi	ATP-88AT	
Centrifugal machine	Luqiao Langbo Motor Co.Ltd	Custom	≤1450 rpm
Data processing software	OriginLab	Origin 2020	
EVA	DuPont Company	360	binder
Mass flow controller	Bronkhost	F-203AV	0-1500 l/min
Melt mixer	Winzhou Chengyi Jixie Co.Ltd	Custom	
Multi-function data acquisition card	NI	USB-6211	
Paraffin	Sinopec Group Company	58#	Fully refined paraffin, Melting point≈58°C
PE wax	Qatar petroleum chemical industry Company	Custom	
Slicing software	Raise3D	ideaMaker	
Spark plug	NGK	PFR7S8EG	
Stearic acid	ical Reagent Company	Custom	hardener