

PM2000 – ODS / SPS

SPS-consolidated, semi-finished and/or machined small parts

Application	Background & info
ODS-steels powder & bulk <ul style="list-style-type: none"> • high-temperature resistant • corrosion-resistant • (high strength) • components in gas turbines / aero- and combustion engines / combustors / incinerators • candidate for nuclear fusion reactors 	<ul style="list-style-type: none"> • revitalization of Plansee PM2000 by Zoz • uniform distribution of dispersoids (nanoscale, 10-25nm) • PM-like process utilizing Simoloyer® for high kinetic processing (HKP) • ODS: Oxide Dispersion Strengthened steel • NFA: Nanostructured Ferritic Alloy • SPS: Spark Plasma Sintering • HIP: Hot Isostatic Pressing

Composition [w%]	Fe	Cr	Al	Ti	Y ₂ O ₃
PM2000	bal.	19	5,5	0,5	0,5
PM2017ff (tbc)					

Dimensions – availability		
SPS parts	dimensions	info
semi-finished	ø65 x H10-100mm	less ~ 1mm surface zone
semi-finished	ø105 x H10-100mm	
semi-finished	other dimensions upon inquiry	
machined	finished parts up to ø100x90mm	as per your requirement/dimensioning/drawing

Coming up next				
brand	chem. composition (starting mat.)	ID	origin	t. b. on shelf
PM2000	Fe-19Cr-5.5Al-0.5Ti-0.5Y ₂ O ₃	19YAT	ODS-PM	fine-grain/HIP only, ø40xL250mm
PM2017	Fe-20Cr-5.5Al-0.5Y ₂ O ₃	20YA1	ODS-RR	powder only (AM, ALM, MIM)
PM2018	Fe-14Cr-3W-0.4Ti-0.25Y ₂ O ₃	14YWT	NFA-GE	t. b. d.
PM3000	Ni-base ODS			

our Partners			
			

Attention:

no regular cost before summer 2019, till that compensation agreement only

technical data subject to alterations