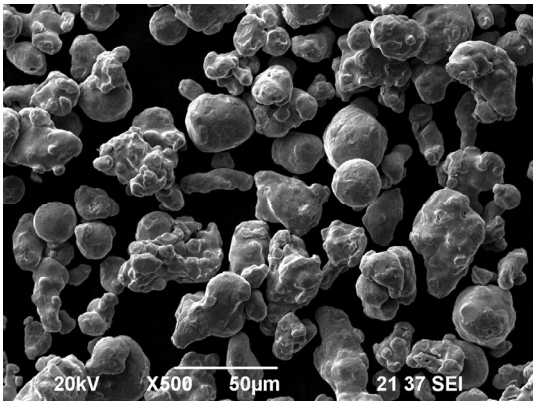

ATOMET 1025 - Chemical composition			
Fe	C	Mn	Si
Bal.	0.2-0.35	0.7-0.9	0.15-0.25

Additively manufactured (LPBF) and heat treated samples using ATOMET 1025* compared to similar standard grades				
	YS (MPa)	UTS (MPa)	Elong. (%)	Charpy V-notch (J)
ATOMET 1025	385	525	30	100
ASTM A105	>250	>485	>22	40
DIN 1.0460	>240	410-540	>25	44
Grey cast iron (C50)	-	431	-	

*Powder carbon content = 0.35 wt.%

Coming soon
ATOMET 4340

Chemical composition					
C	Mn	Si	Ni	Cr	Mo
0.38-0.43	0.60-0.80	0.15-0.35	<2.00	0.70-0.90	0.2-0.3

Typical mechanical properties of AISI 4340 Quenched and Tempered				
YS (MPa)	UTS (MPa)	Elong. (%)	Charpy V-notch (J)	Hardness (HB)
≥ 1150	≥ 1200	≥ 14	47	≥ 350