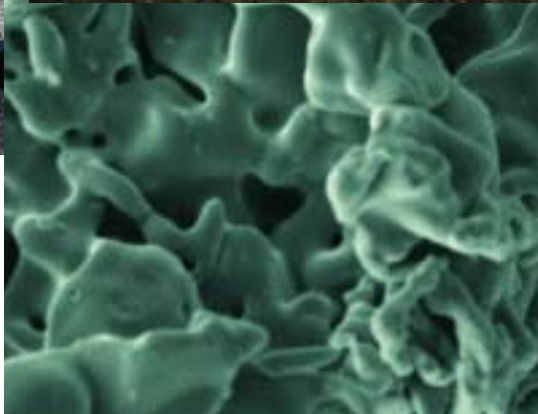


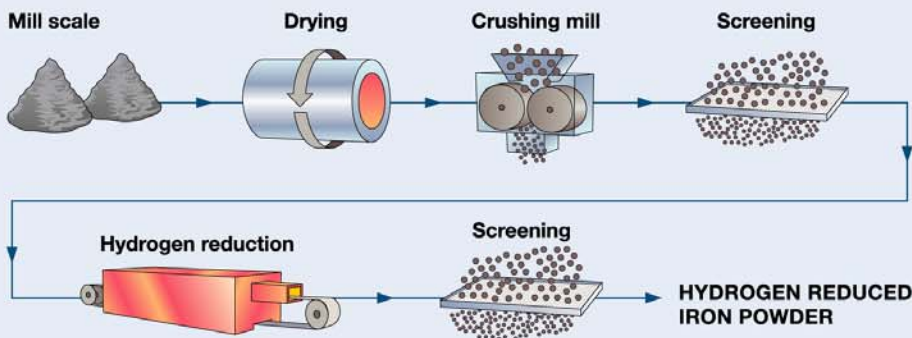
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## Iron Powder for Friction Applications

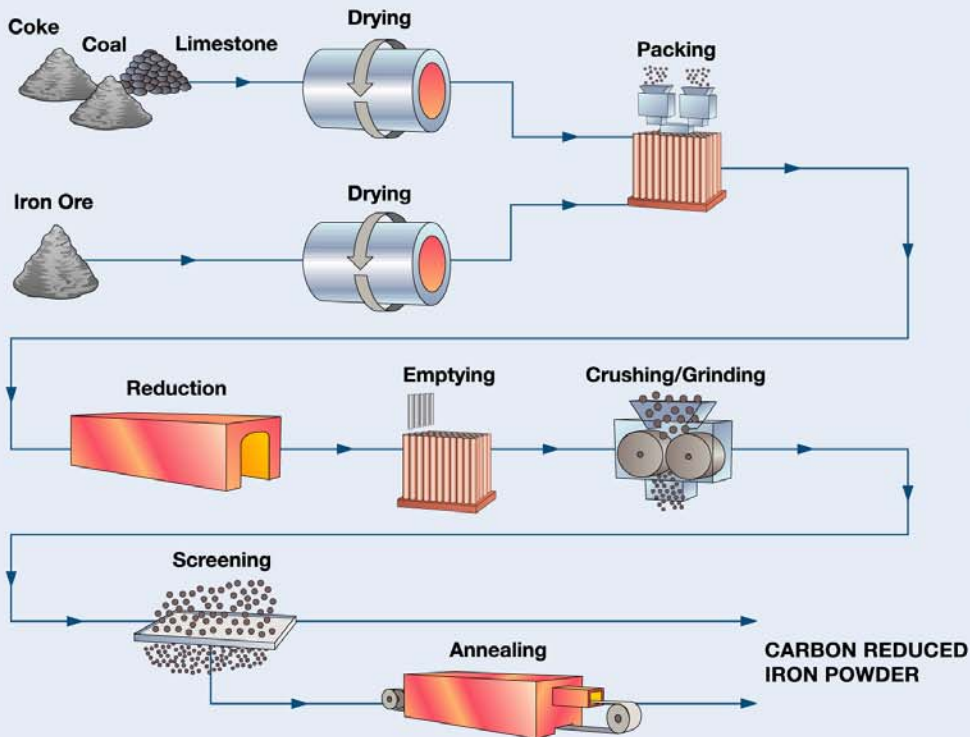


# Iron powder manufacturing processes

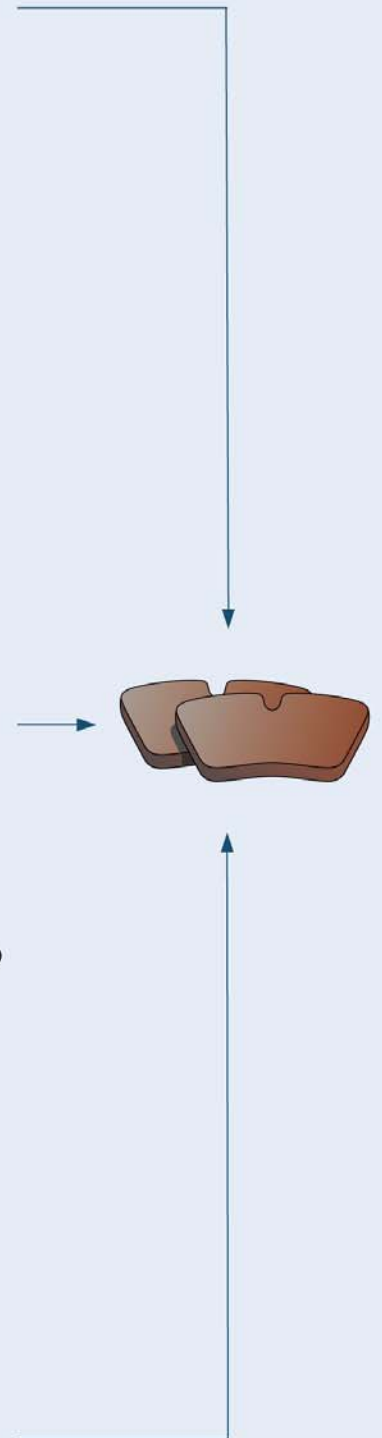
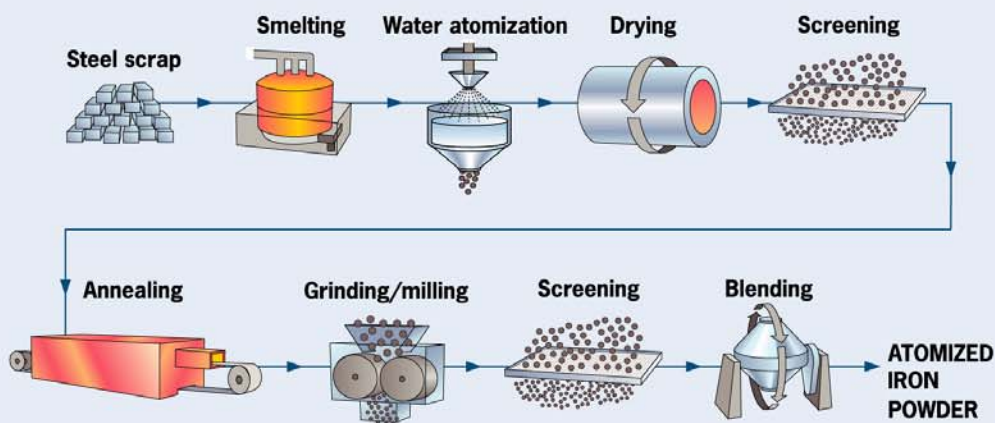
## Hydrogen reduction process



## Carbon reduction process



## Atomized process

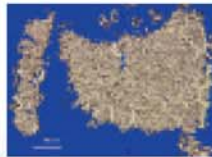
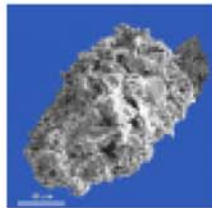


# Powder selection guide

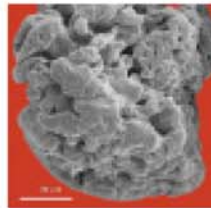
Several factors determine the right powder for your application, including particle size distribution (PSD), Apparent Density (AD), morphology (appearance) and hardness (chemical composition and treatment).

Here is an overview of some of these variables.

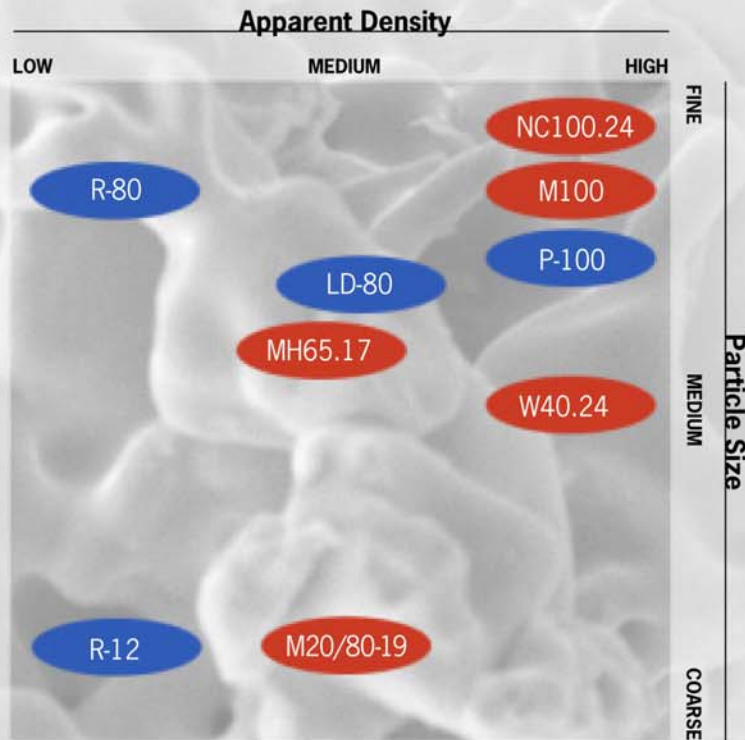
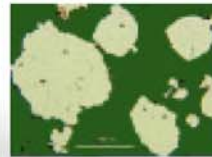
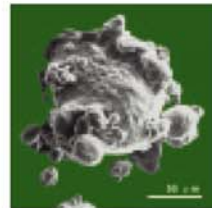
*Hydrogen reduction creates a very porous particle*



*Carbon reduction gives an irregular surface area*

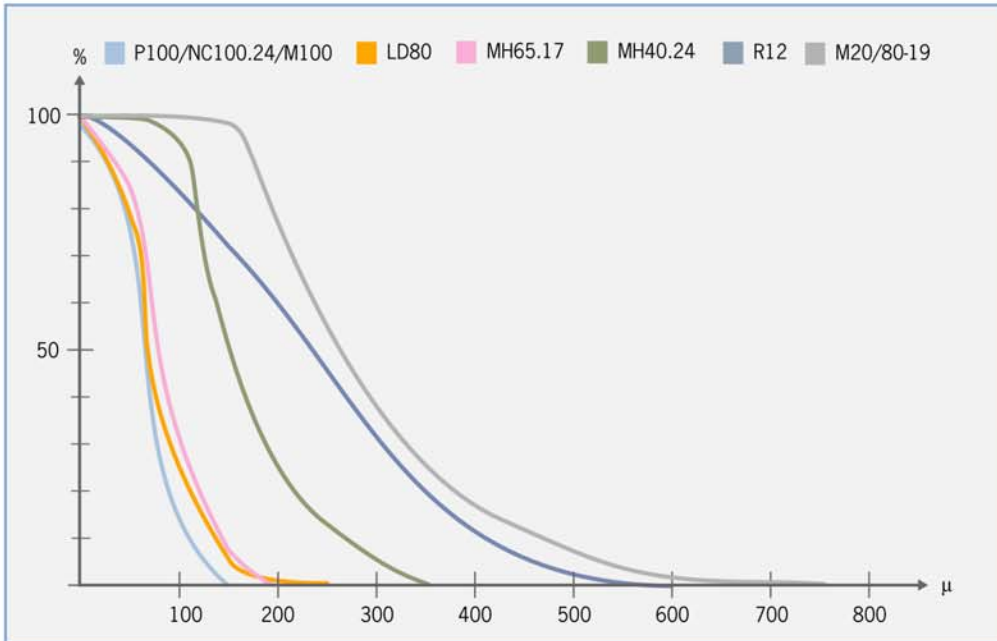
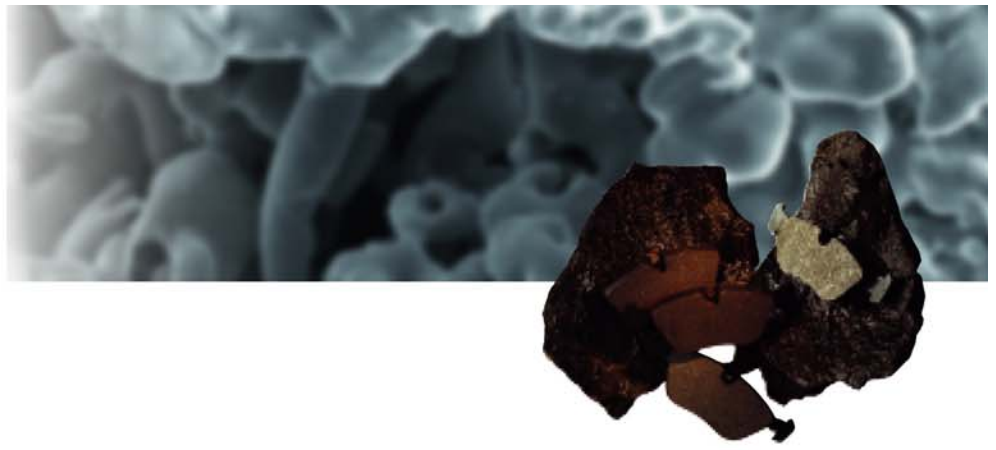


*Atomization results in a smooth, hard, dense particle*





## Basic Friction Iron Powder Range



Products	Typical values						
	AD (g/cm <sup>3</sup> )	Specific surface BET (m <sup>2</sup> /kg)	Particle size (%)			Chemical composition	
			+60 mesh / 250μm	+100 mesh / 150μm	-325 mesh / 45 μm	H2 - loss (%)	C (%)
R12	1.35	225	51	73	6	1.35	0.02
M20/80-19	1.75	140	55	97	0	0.6	0.21
MH65.17	1.8	100	0	5	16	0.17	0.005
LD80	1.9	200	0	5	23	0.9	0.02
P100	2.4	175	0	1	30	0.9	0.02
W40.24	2.5	90	15	65	0	0.15	0.02
NC100.24	2.4	130	0	2	17	0.19	0.01
M100	2.4	130	0	2	20	0.82	0.21

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