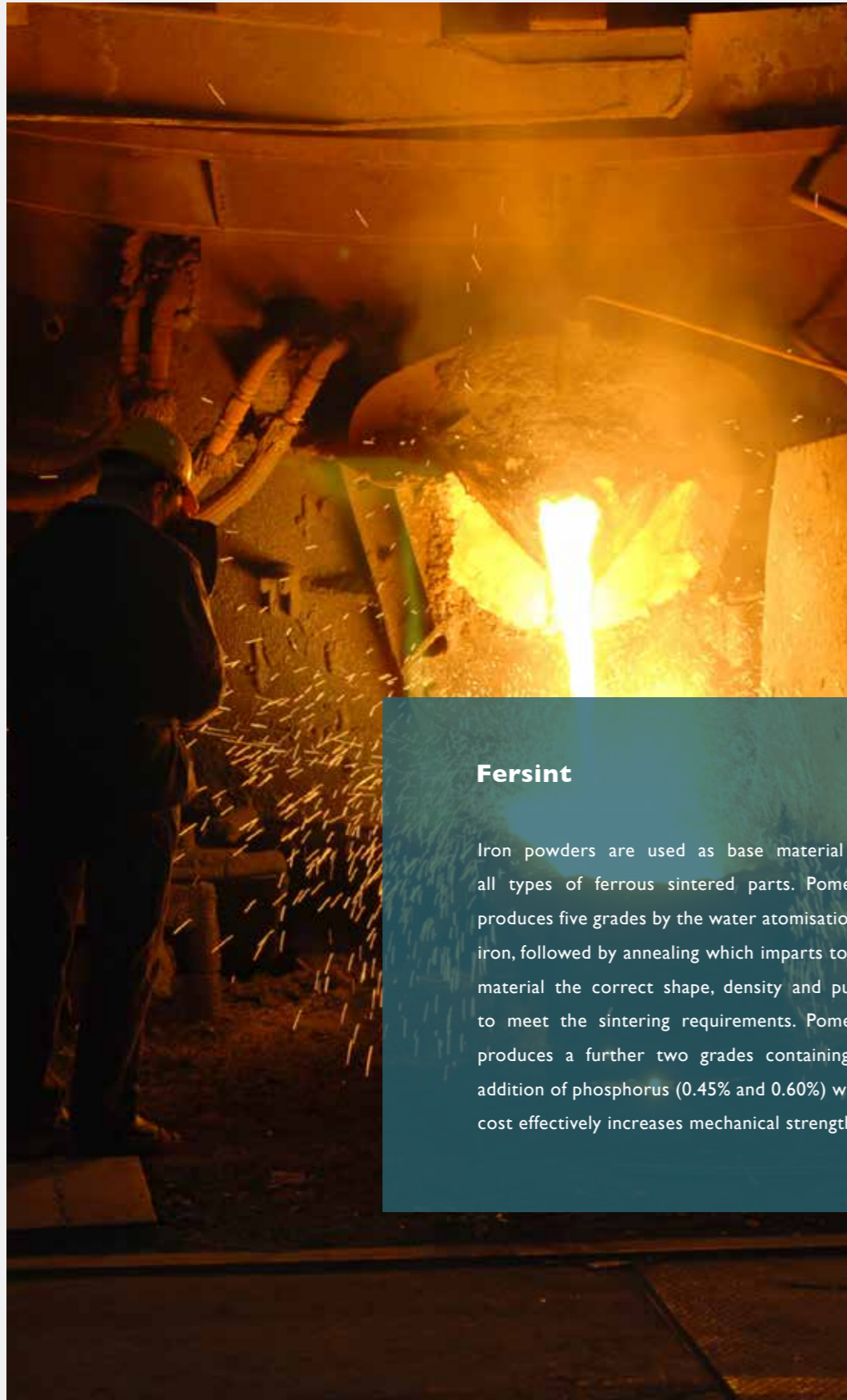


Base material grades

Powder Family	Grade	Apparent Density (g/cm ³)	Particle Size	Flowability (s/50 g)	Compressibility (g/cm ³)	Green Strength (N/mm ²)	Max Chemical %			Added elements (%)
							O _t	C	S	
Base powders FERSINT	RI 180/2.6	2.60 - 2.70	< 250 μm	35 Max	7.00 min	17.0 min	0.15	0.01	0.01	-
	RI 180/2.8	2.70 - 2.90	< 250 μm	30 Max	7.05 min	16.0 min	0.15	0.01	0.01	-
	RI 180/3.0	2.95 - 3.05	< 250 μm	28 Max	7.05 min	14.0 min	0.10	0.01	0.01	-
	RI 180/3.0 SC	3.00 - 3.10	< 250 μm	26 Max	7.15 min	12.0 min	0.06	0.005	0.01	-
	RI 212/2.9	2.80 - 3.00	< 250 μm	30 Max	7.10 min	7.5 min	0.15	0.01	0.01	-
	P 45	3.05 - 3.25	< 250 μm	35 Max	7.00 min	15.0 min	0.15	0.03	0.02	P 0.45
	P 60	3.05 - 3.25	< 250 μm	35 Max	7.00 min	15.0 min	0.15	0.04	0.02	P 0.60



Fersint

Iron powders are used as base material for all types of ferrous sintered parts. Pometon produces five grades by the water atomisation of iron, followed by annealing which imparts to the material the correct shape, density and purity to meet the sintering requirements. Pometon produces a further two grades containing an addition of phosphorus (0.45% and 0.60%) which cost effectively increases mechanical strength.

