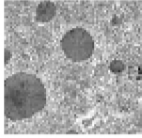

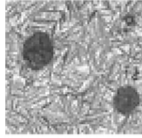


Designation in accordance with DIN EN 1564			EN-GJS-800-10	EN-GJS-1050-6	EN-GJS-1200-3
Reference analysis	C		3.50 – 3.70	3.50 – 3.70	3.50 – 3.70
for medium wall thicknesses	Si		2.30 – 2.60	2.30 – 2.60	2.30 – 2.60
	Mn		max. 0.40	max. 0.40	max. 0.40
	Mo		-	-	-
	Ni		max. 1.0	max. 1.0	max. 1.0
Microstructure			 Austenite and ferrite (ausferrite) 500:1	 Austenite and ferrite (ausferrite) 500:1	 Austenite and ferrite (ausferrite) 500:1
<b>Mechanical properties <sup>1)</sup></b>					
Tensile strength	R <sub>m</sub>	MPa	800	1050	1200
0.2 yield strength	R <sub>p0.2</sub>	MPa	500	700	850
Elongation at fracture	A <sub>5</sub>	%	10	6	3
Elastic modulus	E	GPa	170	168	167
Notched bar impact work <sup>2)</sup>	at +23 °C (RT)	Joules	10	-	-
Brinell hardness	BHN		250 – 310	320 – 380	340 – 420
Fatigue limit <sup>3)</sup>		MPa	375	430	450
Fatigue limit <sup>4)</sup>		MPa	225	265	280
<b>Technological properties</b>					
Usage temperature		°C	< 200	< 200	< 200
Machinability			Average	Average	Difficult
Wear resistance			Excellent	Excellent	Excellent
Induction or flame-hardening capacity			Cannot be hardened or welded		
Nitriding capacity			Cannot be hardened or welded		
Weldability			Cannot be hardened or welded		
<b>Physical properties</b>					
Density	ρ	kg/dm <sup>3</sup>	7.1	7.1	7.0
Thermal conductivity	λ	W/(K*m)	20 – 23	20 – 23	20 – 23
Thermal expansion coefficient	α up to 200 °C	10 <sup>-6</sup> /K	14 – 18	14 – 18	14 – 18
Special materials or grades not listed available on request					

<sup>1)</sup> The mechanical properties of cast iron with spheroidal graphite in integrally cast Y-shaped test specimens (minimum values)

<sup>2)</sup> Mean value of three ISO-V test specimens (DIN 50115)