

1) 1= excellent  $\Rightarrow$  4=satisfactory

Nomenclature	<i>castable<sup>1)</sup></i>	<i>machinable<sup>1)</sup></i>	$R_{p0.2}$ (20°C) N/mm <sup>2</sup>		<i>HB</i> 5/250		$\rho$ g/cm <sup>3</sup>	<i>E</i> kN/mm2	$a_L$ 10-6/K	<i>I</i> W/(K m)
Short term Material number			<i>Sand casting</i>	<i>Die casting</i>	<i>S</i>	<i>K</i>				
<b>Aluminium</b>										
AlSi7Mg wa 3.2374.6	2	2	180	200	75	80	2.66	69-75	22	143-172
AlSi10Mg 3.2381	1	3	80 wa 180	100 200	50 75	60 85	2.65	75	22	140-170
AlSi10Mg (Cu) 3.2383	1	3	100 wa 190	130 210	55 75	60 85	2.65	75	22	140-170
AlSi7Mg0.6 wa 3.2384.6	1	2		220		90	2.67	69-75	22	143-172
AlSi6Cu4 3.2151.61	2	2	140 wa 200		75		2.75	75	22	110-130
AlSi9Cu3 3.2163	1	2	140	140	65	70	2.75	75	22	100-130
AlCu5Ni1.5NiCoSbZr 3.1754	4	3	140	210	85		2.84	70	22.5	150
<b>Gray Iron</b>										
GJL250	1	1	165		180	240	7.2	120	10.5	48.5
GJV450 (Perlitic)	1	3	340		200	260	7.12	158	12	36