

## APPENDIX 2

### Some Properties of Common Steels

NAME	DIN	AISI/SAE	BS	TYPE	Specific Heat	Thermal Conductivity
	Material Number	Material Number	Material Number		J kg <sup>-1</sup> °C	W m <sup>-1</sup> °C <sup>-1</sup>
	1 . 1730	SAE 1045	EN8			42.5
	1 . 2764	AISI P 21				33.5
	1 . 2767	AISI 6 F 7	EN 30 B			30.0
	1 . 2083	AISI 420				20.0
	1. 2311	AISI P20				35.7
	1 . 2312	AISI P20 + S				34.5
	1 . 2343	AISI H11	BH11			25.3
Cast Iron				Typical	7.87 x 10 <sup>3</sup>	52.0
Mild Steel				Typical	7.87 x 10 <sup>3</sup>	46.0
Ni Cr Steel				3.6% Ni 0.8% Cr	7.85 x 10 <sup>3</sup>	36.0
Stainless Steel				416 - S21 (EN56 AM)	7.85 x 10 <sup>3</sup>	25.0
18/8 Steel				321 - S20 (EN58 B)	7.85 x 10 <sup>3</sup>	16.5
Chrome Steel				27% Cr	7.60 x 10 <sup>3</sup>	20.9
Silicon Steel				2% Si	7.85 x 10 <sup>3</sup>	12.5