



Material designation	Old BS	Temper	Thickness		Mechanical properties								
			Over	Up to and including	0.2% proof stress min	Tensile strength		Elongation, min. %					$A_{>12.5mm}$
						min	max	A_{50mm}					
								0.2-0.5	0.5-1.5	1.5-3.0	3.0-6.0	6.0-12.5	
1080A	S1A	F	3.0	25.0	-	60	-	-	-	-	-	-	-
		0	0.2	6.0	15	60	90	26	28	31	35	35	-
		H14	0.2	12.5	70	100	140	4	4	5	6	7	-
		H18	0.2	3.0	105	125	-	2	2	2	-	-	-
1050A	S1B	0	0.2	6.0	20	65	95	20	22	26	29	-	-
		H14	0.2	12.5	85	105	145	2	3	4	5	6	-
		H18	0.2	3.0	120	140	-	1	2	2	-	-	-
1200	S1C	F	3.0	25.0	-	75	-	-	-	-	-	-	-
		0	0.2	6.0	25	75	105	2	4	5	6	-	-
		H12	0.2	6.0	75	95	135	2	4	5	6	-	-
		H14	0.2	12.5	95	115	155	2	3	4	5	6	-
		H16	0.2	6.0	115	130	170	1	2	3	-	-	-
1350 BS 2897*	D1E	0	-	-	-	-	90	25	25	25	25	25	-
		H14	-	-	-	95	140	8	8	8	8	8	-
		H18	-	-	-	145	-	3	3	3	3	3	-
2014A*	HS15	T4	0.2	25.0	240	395	-	14	14	14	14	14	-
		T6	0.2	3.0	390	440	-	-	6	-	-	-	-
			3.0	25.0	-	-	-	-	-	-	-	-	-
			25.0	40.0	-	-	-	-	-	-	-	-	-
2014A Clad*	HC15	T4	0.2	12.5	230	375	-	13	14	14	14	14	-
			12.5	25.0	245	385	-	-	-	-	-	-	10
		T6	0.2	0.3	325	400	-	7	7	8	8	8	-
			3.0	12.5	365	425	-	-	-	-	-	8	-
3103	NS3	0	0.2	6.0	35	90	130	17	19	21	24	-	-
		H12	0.2	6.0	85	115	155	3	4	5	6	-	-
		H14	0.2	12.5	120	140	180	2	2	3	4	5	-
		H16	0.2	6.0	145	160	200	1	2	2	-	-	-
		H18	0.2	3.0	165	185	-	1	2	2	-	-	-
3105 BS4300/6	NS31	0	0.2	3.0	40	100	155	14	15	17	-	-	-
		H12	0.2	3.0	105	130	180	3	4	4	-	-	-
		H14	0.2	3.0	130	150	200	2	2	2	-	-	-
		H16	0.2	3.0	160	175	225	1	2	2	-	-	-
		H18	0.2	3.0	180	195	-	1	1	1	-	-	-
5005 BS4300/7	NS41	0	0.2	3.0	35	100	145	15	19	20	-	-	-
		H12	0.2	3.0	95	125	165	2	2	4	-	-	-
		H14	0.2	3.0	120	145	185	2	2	3	-	-	-
		H18	0.2	3.0	165	185	-	1	2	2	-	-	-
5083	NS8	F	3.0	25.0	-	275	-	-	-	-	-	-	-
		0	0.2	25.0	125	275	350	11	12	13	15	16	15
		H12	0.2	6.0	250	315	375	3	4	5	6	-	6
		H14	0.2	6.0	280	340	400	2	3	3	3	-	-
5154A	NS5	0	0.2	6.0	85	215	275	12	13	15	17	-	-
		H12	0.2	6.0	190	250	305	3	4	5	6	-	-
		H14	0.2	6.0	220	270	325	2	3	3	4	-	-
5251	NS4	F	3.0	25.0	-	160	-	-	-	-	-	-	-
		0	0.2	6.0	60	160	200	13	14	16	18	-	-
		H22	0.2	6.0	120	190	230	4	6	8	10	-	-
		H24	0.2	12.5	140	210	250	3	5	6	8	10	-
5454 BS4300/8	NS51	F	3.0	25.0	-	215	-	-	-	-	-	-	-
		0	0.2	6.0	85	215	275	12	13	15	17	-	-
		H12	0.2	3.0	190	250	305	3	4	5	-	-	-
6082	HS30	H14	0.2	3.0	220	270	325	2	3	3	-	-	-
		0	0.2	3.0	85 max	-	150	14	16	18	-	-	-
		T4	0.2	3.0	110	205	-	12	14	15	-	-	-
			3.0	25.0	110	205	-	-	-	-	-	-	-
7020 BS4300/14	HS17	T6	0.2	3.0	260	310	-	6	7	-	-	-	-
			3.0	25.0	260	310	-	6	7	-	-	-	-
		T4	0.2	25.0	210	320	-	11	-	12	-	-	-
			0.2	25.0	280	350	-	7	-	8	-	-	-

*Not as per BS EN 485-2: 1995



Material designation	Old BS	Temper	Thickness		Mechanical properties				
			Over	Up to and including	0.2% proof stress min	Tensile strength		Elongation	
						min	max	A_{min}	$A_{50mm min}$
1050A	E1B	F	mm	mm	MPa	MPa	MPa	%	%
1200	E1C	F	-	ALL	20	60	-	25	23
5083	NE8	F	-	ALL	25	75	-	20	18
5154A	NE5	O	-	200	110	270	-	12	10
		F	-	200	110	270	-	12	10
5154A	NE5	O	-	200	85	200	275	18	16
		F	-	200	85	200	-	16	14
5251	NE4	F	-	ALL	60	160	-	16	14
5454 BS4300/12	NE51	O	-	200	85	200	275	18	16
		F	-	200	85	200	-	16	14
6061	HE20	T4	-	200	110	180	-	15	13
		T6	-	200	240	260	-	8	6
6063	HE9	O	-	200	-	-	130	18	16
		F	-	-	-	-	-	-	-
		T4	-	150	65	130	-	14	12
			150	200	65	120	-	12	-
		T5	-	200	130	175	-	8	6
T6	-	150	170	215	-	10	8		
	150	200	160	195	-	10	-		
6082	HE30	O	-	200	110 max	-	160	14	12
		F	-	-	-	-	-	-	-
		T4	-	200	110	205	-	14	12
			-	20	250	295	-	8	6
T6	20	150	260	310	-	8	-		
	150	200	240	280	-	6	-		
6101A BS2898	E91E	T6	-	150	170	200	-	10	8
6463 BS4300/4	BTRE6	T4	-	150	75	125	-	14	12
		T6	-	150	160	195	-	10	8
7020 BS4300/15	HE17	T6	-	50	290	350	-	10	8
			50	200	275	340	-	10	-

Elongation values

The A_{50mm} value is the elongation measured over a gauge length of 50mm and expressed in percent.

The A value for elongation is the % elongation measured over a gauge length of $5,65\sqrt{S_0}$ (where S_0 is the initial cross sectional area of the test piece), and expressed in percent.

a) Extruded rod/bar:

the A_{50mm} value shall be used for rectangular rod/bar tested in the full thickness up to 12,5mm thickness. The A value shall be used for all other test pieces.

b) Extruded tube:

the A_{50mm} value shall be used for tube tested in the full section and the sheet type specimens taken from tube having either a flat or a curved wall up to and including 12,5mm thick.

The A value shall be used for round test pieces machined from wall thicknesses over 12,5mm

c) Extruded profile:

the A_{50mm} value shall be used for shapes tested in full section and for sheet type specimens machined from material up to and including 12,5mm in thickness having parallel surfaces.

The A value shall be used for round test specimens machined from material thicknesses over 12,5mm.