

Common designations	Al	Si	Zr	Mo	V	Cr	Other	Relative density	Condition	0.1% proof stress (MPa)	Tensile strength (MPa)	Elongation (%)
α alloys												
CP Ti-99.5% Ti-1% Zr-0.5%							0	4.51	Annealed 875°C	170	240	26
CP Ti-99.5% Ti-1% Zr-0.5%							0	4.51	Annealed 915°C	480	550	15
IMI 2100							0.2 Pd	4.51	Annealed 875°C	213	428	25
IMI 2101								4.46	Annealed 900°C	850	940	15
IMI 2102	0.5	2.5					1.5 Cu	4.54	ST (x) ^a solution aged 430 and 475°C	820	790	24
β alloys												
β-1-1	0			1	1			4.37	Annealed 1180°C	990	990	18
IMI 679	2.26	11	0	1		0.25		4.82	ST (x + β) aged 500°C	990	1190	15
IMI 685	0		5	0.5		0.25		4.49	ST (β) aged 550°C	900	1000	12
β-1-1-1	0	2	2			0.1		4.54	ST (x + β) annealed 900°C	980	1030	15
β-1-1	0	2	1.5	1		0.1	0.35 Bi	4.45	ST (β) aged 700°C	850	840	18
IMI 829	3.5	2.8	3	0.3		0.3	1 Nb	4.81	ST (β) aged 825°C	-	-	-
β-2-2-2	0							4.48	Annealed 700°C	920	980	14
IMI 318, β-2	0							4.48	ST (x + β) aged 500°C	1100	1170	10
IMI 550	0	2		4		0.5		4.80	ST (x + β) aged 900°C	1200	1300	14
IMI 590	2.25	11		4		0.2		4.80	ST (x + β) aged 500°C	1190	1310	15
β-2-2	0	2		8		0.7 (Pa, Cu)		4.54	ST (x + β) aged 550°C	1170	1270	10
β-2-2-2	0	2	4	8				4.88	ST (x + β) annealed 580°C	1170	1270	10
IMI 551	4	4		4		0.5		4.82	ST (x + β) aged 900°C	1200	1310	12
β-2-2-2	0						8 Mn	4.72	Annealed 700°C	890	945	15
β-1-1-3	3				10		11 Cu	4.87	ST (β) aged 480°C	1200	1280	8
β-2-2-2	3	4.5	8	11.5				5.07	ST (β) solution aged	1315	1390	10
β-2-2-2	3			8		2 Fe		4.88	480 aged 500°C	1240	1310	8
Tempage 128	2	2	11		11			4.81	ST (β) aged 580°C	1230	1430	6
β-2-2-2	2		4	4	8		8 Cu	4.82	ST (β) aged 540°C	1130	1220	10

^a ST (x), ST (x + β), ST (β) correspond to solution treatment in the α, α + β, and β phase fields respectively.

■ ■ Annealing treatment normally applied (shorter times than aging treatment).

Tabella I