

MANAURITE 20

MECHANICAL PROPERTIES

1. At room temperature

(minimum values)

Ultimate tensile strength : 449 Mpa 65 ksi
Yield strength : 242 Mpa 35 ksi
Elongation (on 4d) : 10 %

1. Mechanical properties at high temperature - short time tests

Temperature	Y.S. 0.2%		U.T.S		E %
	MPa	ksi	MPa	ksi	
350	201	29.1	479	69.4	21
450	196	28.4	451	65.4	25
550	185	26.8	433	62.7	21
650	179	25.9	417	60.4	20
700	178	25.7	410	59.3	15
750	175	25.3	362	52.4	17
800	170	24.6	294	42.5	22
850	145	21	238	34.4	25
875	131	19	237	34.2	31
900	111	16.1	216	31.3	32
950	104	15	158	22.8	25
1000	62	8.9	87	12.5	40
1100	36	5.1	45	6.4	51

1. Mechanical properties at high temperature - long time tests

See Larson & Miller curve overleaf

CREEP RUPTURE DATA
MANAURITE 20

