

DENAL® 2035

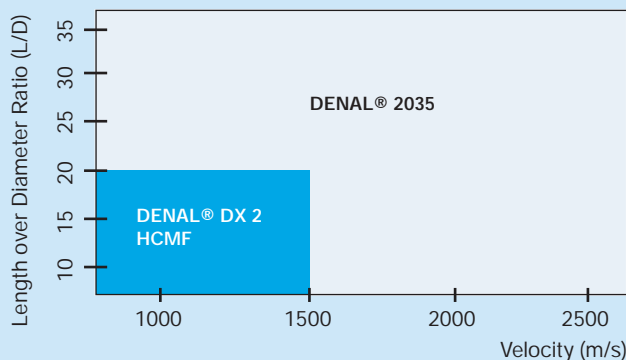
PROPERTIES OF DENAL® 2035 FOR PENETRATORS

MATERIAL	DENSITY (g/cm ³)	Large calibre (Dia 14 to 32 mm, Length 300 to 850 mm)				Medium Calibre (Dia 7 to 14 mm, Length 100 to 300 mm)			
		Y 0,2 Yield Strength (Mpa) Av./Min.	UTS Tensile Strength (Mpa) Av./Min.	A % Elongation (%) Av./Min.	K Charpy Test (J/cm ²) Av./Min.	Y 0,2 Yield Strength (Mpa) Av./Min.	UTS Tensile Strength (Mpa) Av./Min.	A % Elongation (%) Av./Min.	K Charpy Test (J/cm ²) Av./Min.
DENAL® DX2HCMF	17,6	1090/1050	1150/1100	10,0/8,0	30/10	1090/1050	1150/1100	10,0/8,0	30/10
DENAL® 2035	17,5	1240/1190 1340/1290 1440/1390 1540/1490 1640/1590	1250/1200 1350/1300 1450/1400 1550/1500 1650/1600	16,0/13,5 13,5/11,0 11,0/8,5 8,5/6,0 6/3,5	240/120 200/100 160/80 120/60 80/40	1220/1170 1320/1270 1430/1380 1540/1490 1640/1590	1250/1200 1350/1300 1450/1400 1550/1500 1650/1600	13,5/11,0 11,5/9,0 9,5/7,0 7,5/5,0 5,5/3,0	120/60 105/52 90/45 75/37 60/30

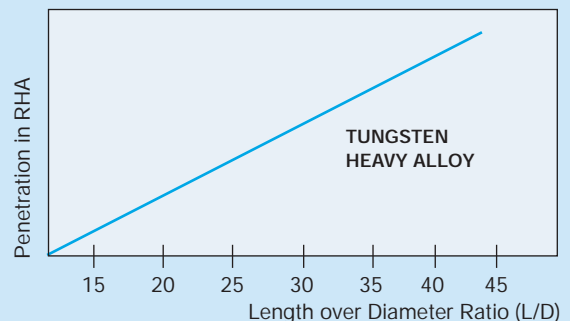
Tests Conditions : Tensile test : 5mm/ minute samples according to NFEN 10002-1 ; Charpy Test : unnotched 10X10X55 mm samples for large calibre and 5X5X55 mm for medium calibre. Average data based on 27 mm blanks for large calibre and 12 mm blanks for medium calibre. Improvements could be made without further notice.

MATERIAL PROPERTIES

Range of CIME BOCUZE's tungsten heavy alloys depending on customer requirements concerning velocity (V) and elongation (L/D).



General effect of L/D ratio on penetration of homogeneous armour.



General effect of velocity (V) on penetration of homogeneous armour.

