

Material Properties

GAB GPX Synthetic Resin-Impregnated Graphite

Works Standard

		GAB Neumann		
		GPX1	GPX1T	GPX2
Density	g/cm³	1,9±0,02	1,9±0,02	1,9±0,02
Max. grain size	mm	0,8	0,8	0,8
Resin content ¹⁾	%	≤22	≤22	≤15
Permeability	cm²/s	10 ⁻⁶	10 ⁻⁶	10 ⁻⁶
Tensile strength (at 20°C)	N/mm²	≥18	≥18	≥20
Flexural strength (at 20°C)	N/mm²	≥32	≥32	≥35
Compressive strength (at 20°C)	N/mm²	60-80	60-80	60-80
Identification according AD 2000 Merkblatt		G18-0-180 ²⁾	G18-0-200 ²⁾	G20-0-200 ²⁾
GXX-...-... (tensile strength at 20°C)	N/mm²	18	18	20
G...-XX-... (drop in strength per +10K)	‰	0	0	0
G...-...-XX (max. admissible temperature)	°C	180	200	200
Heat conductivity	W/(m×K)	≥120	≥120	≥150

significantly improved properties as compared to other graphite material in use

¹⁾ equal to open porosity of non-impregnated graphite

²⁾ material certification by TUV in accordance with AD 2000 Merkblatt