

F.LLI FOSSATI'S ISOTROPIC GRAPHITE										
PROPERTY	UNIT	F20	F30SPH	F40ZB	F50	F55	F60	F70	F80	F90
density	g/cm ³	1,77	1,75	1,80	1,85	1,83	1,92	1,82	1,88	1,84
porosity	%	9	15	9	8		4		4	8
harness	Shore	52	43	52	58	58	68	64	65	55
moduls of elasticity	GPa	9,2	7,0	9,2	10,8	11,8	12,4	11,3	12,6	12,4
flexural strenght	MPa <i>psi</i>	41	34 <i>4,900</i>	41 <i>6,000</i>	49 <i>6,000</i>	47	45 <i>6,000</i>	61	57 <i>8,300</i>	45
compressive strenght	MPa <i>psi</i>	91	74 <i>10,800</i>	91 <i>13,200</i>	91 <i>13,200</i>	103	99 <i>14,300</i>		126 <i>18,300</i>	99
coefficient of thermal expansion	x 10 ⁻⁶ /°C /°F	4,5	4,0 <i>2,2</i>	4,5 <i>2,5</i>	4,2 <i>2,3</i>	4,6	4,5 <i>2,5</i>		5,0 <i>2,8</i>	4,5
electrical resistivity	μΩ cm Ω in	1,600	1,220 <i>0,00048</i>	1,600 <i>0,00063</i>	1,120 <i>0,00044</i>	1,000	1,090 <i>0,00043</i>	1,300	1,170 <i>0,00046</i>	10,90
thermal conductivity	W/m°C <i>BTU-Ft/Ft²Hr°</i>	81	106 <i>61</i>	81 <i>47</i>	116 <i>67</i>	130	119 <i>69</i>	104	111 <i>64</i>	119
average grain size	μm <i>in</i>	15	20 <i>0,0006</i>	15 <i>0,0006</i>	15 <i>0,0006</i>		13 <i>0,0005</i>		13 <i>0,0005</i>	13
TYPICAL APPLICATIONS		DENTAL INDUSTRY MICROFUSION		MICROFUSION			CONTINUOUS CASTING			