

Isostatic Fine Grained Graphites



Technical Data

Olmec's range of isostatically moulded fine grained graphites are suited to a wide range of applications and hi-tech industries. Having been supplying the carbon and graphite fields for over four decades we have a wealth of knowledge to help ensure you are using the most suitable material for your application.

Industries using these graphite's include semi-conductors, energy storage and production, aerospace, particle physics, the optical sector from quartz glass to optical fibres, air bearing and seal applications and many more.

The isotropic properties allow more simple design and use of these grades providing both reliable and homogeneous properties.

With an ability to operate up to temperatures approaching 2000C, with a tiny variation if size because of the very low CTE and excellent shock resistance you can be confident in the use of the isotropic graphites for your application.

We offer purified options and super-fine materials.

If you require more information or assistance with selecting the appropriate grade for your processes, please don't hesitate to contact us at info@olmec.co.uk.

Grade	Flexural Strength	Compressive Strength	Young's Modulus	Density	Porosity	Shore Hardness	Coefficient of Thermal Expansion	Thermal Conductivity	Ash Content	Particle Size	Typical/ Appropriate Applications
Units	MPa	MPa	GPa	g/cm ³	%	D-Scale	10 ⁻⁶ /°C	W/m.K	ppm	µm	
Y459	46	85	11	1.85	13	58	4.7	139	500/50*	13	Continuous casting, sintering and high temp. casting, glass mould.
Y595	48	100	11	1.85	11	65	4.2	125	500/50*	12	Vacuum or inert heat treatment, crucibles for precious metals.
Y472	51	115	11	1.85	12	65	5.6	85	500/50*	10	Photovoltaic, plasma-enhanced chemical vapor disposition.
Y444	52	110	12	1.78	11	66	5.0	82	500/50*	10	EDM precise machining in large moulds, die casting moulds.
Y441	38	80	8.8	1.68	18	60	5.8	85	500/50*	9	Vacuum furnaces, solar, photovoltaic, air bearings.
Y552	60	135	12	1.91	11	70	5.8	85	500/50*	8	Semiconductors, 3D glass moulds, dies, crucibles, photovoltaic.
Y454	65	135	11	1.80	11	75	5.4	85	500/50*	5	Semiconductors, 3D glass moulds, dies, crucibles, photovoltaic.
Y780	75	150	14	1.90	5	90	6.5	85	300/50*	3	Nuclear research, 3D glass mould, EDM.
Y450	80	160	14	1.90	5	90	6.0	85	300/50*	2	Nuclear research, 3D glass mould, EDM.

*Purified option available.

Head Quarters:

Olmec Advanced Materials Ltd.
Unit 37, Venture One Business Park, Long Acre Close,
Holbrook Industrial Estate, Sheffield, S20 3FR
U.K.

Telephone: +44 (0) 1142 361 606
Opening Hours: 09.00 - 17.00 Mon - Fri
GB Co Reg. No. 247 6257
GB VAT No. 570 6797 06

EORI Number: 570 6797 06 000
DUNS Number: 50 505 2859



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