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Mersen

# Graphite Grades Mersen

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### **Graphite Grades Mersen**

Mersen , a worldwide leader in iso-molded graphite, offers a complete range of graphite grades to suit any EDM

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graphite applications. In order to satisfy customers and meet their unique specifications and requirements, new materials with improved properties and performance are constantly being developed. Our newest ELLOR<sup>®</sup> graphite grades now benefit from much finer grain size.

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## **Graphite Grades | Mersen USA | World leader in Isostatic ...**

Mersen USA - St. Marys. 215 Stackpole  
Street St. Marys, PA 15857-1488 USA.  
Phone: +1 814 781-1234 Fax: +1 814  
781-8570

## **EDM Machining - Graphite Grades | Ellor® | Mersen USA**

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This grade consists of long fibres distributed randomly in all directions, then densified with a pyrocarbon matrix. It offers almost isotropic thermal properties. It is a material of choice for nuclear fusion type applications. 2D composite materials joined with a resin

**MERSEN | Carbon carbon composite**

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## **grades**

80L 98L 95L 80L 80H 55(Sh) 90H 59(Sh)  
95L 70H 90H 95H C.T.E.  $\times 10^{-6} / ^\circ\text{C}$   
(400-500C)

## **Properties of Popular Mersen Grades**

- Grade consistency (inert and non-wetting to most chemicals)
- Large

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diameters available up to 1.5 m in graphite and 2.2 m in Carbon/Carbon composites for the whole range of products • High purity (less than 5 ppm), which avoids contamination and allows high quality products • Dedicated high performance solutions to increase lifetime and efficiency • Mersen materials offer strong benefits...



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## **Graphite grades - MERSEN**

With its leading experience in EDM, Mersen has developed a complete range of graphite grades aiming to answer to the widest range of electrode designs and workpiece materials. The selection of the right graphite grades will depend on numerous factors.

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## **GRAPHITE GRADES FOR ELECTRICAL DISCHARGE MACHINING (EDM)**

Mersen Graphite has an extensive inventory of carbon and graphite grades specifically designed for mechanical applications such as: Guiding and Friction: bearings, thrust bearings, rotors, vanes. Dynamic Sealing: rotating

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shafts, pistons. Aerospace: main shaft seals, flex tubing seals, APV seals.

## **Mechanical Carbon-Graphite | Mersen Graphite**

Mersen Graphite is your one-stop-shop for high temperature carbon and graphite materials. We offer a wide range of sizes in both Iso-molded and

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extruded grades of graphite. For your insulation requirements, we can also provide CALCARB® CBCF rigid insulation, Papyex flexible graphite, carbon/carbon composite materials, Isolor carbon foam, carbon and graphite felt.

### **Graphite & Carbon Materials |**

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## **Mersen Graphite**

Mersen is the leading manufacturer of graphite. Through the rigorous selection of raw materials, the significant experience in the production of graphite acquired through decades of operation and its outstanding production facilities, Mersen graphite is recognized to be a top performer material with constant

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qualities.

## **MERSEN | graphite machining | carbon solutions | block ...**

Mersen: carbon brush leading manufacturer. Carbon brush leading manufacturer A carbon brush is a sliding contact used to transmit electrical current from a static to a rotating part,

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in a motor or generator, and as regards DC machines, ensure a spark-free commutation.. Carbon brushes are maintained by brush-holders to be in permanent contact with the slip ring assembly or with the commutator.

**MERSEN | motor brush | carbon brush | carbon brushes | DC ...**

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ELLOR® is a complete range of isostatic grades, from universal to micro-grain graphite dedicated to Electrical Discharge Machining (EDM), also called Spark Machining or Die Sink EDM. Watch our new video! May 18, 2020. Mersen Group Presentation. A global expert in electrical power and advanced materials, Mersen designs innovative



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solutions to address its clients' specific needs to enable them to optimize their manufacturing performance in sectors such as energy, electronics, transportation

**MERSEN | Global expert in electrical power and advanced ...**

With its leading experience in EDM,

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Mersen has developed a complete range of graphite grades aiming to answer to the widest range of electrode designs and workpiece materials. The selection of the right graphite grades will depend on numerous factors. Mersen's expertise will guide you to the proper conclusion.

## **Graphite Grades for Electrical**

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## **Discharge Machining (EDM)**

Ellor® Graphite Grades for Electrical Discharge Machining (EDM) 08/07/2020 - 4.35 MB. 2020 Corporate Product Brochure - Performance by Mersen. ... Mersen: First Quarter 2020 Sales of €225 million. 29/04/2020 - 244.08 KB. Mersen: situation at end-March 2020. 08/04/2020 - 151.52 KB.

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## **MERSEN | Publications**

Metal graphite grades are made from natural or artificial graphite powders and a wide variety of metal content agglomerated with thermo-hardening resin to provide optimum conductivity for low voltage applications.

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## **MERSEN | FHP motors | carbon brush | carbographitic ...**

Grade A035. This grade consists of long fibres distributed randomly in all directions, then densified with a pyrocarbon matrix. It offers almost isotropic thermal properties. It is a material of choice for nuclear fusion type applications. Grade A412N. A composite

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specially designed to reinforce thermal conductivity.

## **MERSEN | CC composite grades**

Properties of Popular Mersen Grades.

2910 1940 2020 2191 2124 2236 2245  
2303 2320 2160 2175 Units

Densityg/cm<sup>3</sup> 1.74 1.79 1.78 1.75 1.84  
1.78 1.80 1.76 1.80 1.84 1.83 Average

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Grain Size $\mu\text{m}$	30	13	15	13	13	10	8	16	13
5 <4 Resistivity $\mu\text{-ohm.cm}$	1600	1397	1550	1168	1140	965	1520	1372	1120
1370 1397 Flexural StrengthMpa	30	43	52	44	58	52	69	40	50
78 79 Compressive StrengthMpa	67	89	98	97	124	105	141	83	110
157 121 Hardness Shore	55	63	52	55	68	55	71	59	60
78 70 C.T.E.x 10-6/ C (400-500C)	4.1	5.2	4.3						

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4.2 ...

## **Properties of Popular Mersen Grades**

Mersen, a world leader in the field of isotropic graphite, offers a complete range of ELLOR® graphite grades to suit all EDM applications. Product Detail. Hot glass handling hardware and



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consumables.

## **MERSEN | graphite machining | carbon solutions | block ...**

GRAPHITE GRADES. FOR ELECTRICAL  
DISCHARGE MACHINING (EDM) Ellor®.

+It's all about the right balance. With its  
leading experience in EDM, Mersen has  
developed a complete range of graphite

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grades aiming to answer to the widest range of electrode designs and workpiece materials. The selection of the right graphite grades will depend on numerous factors.

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