



EDMfluid[®]

The range of the dielectric synthetic fluids



POWER TO CREATE

Sodick

create your future

Together, at service of **EDM** process.

DIE SINKING EDM

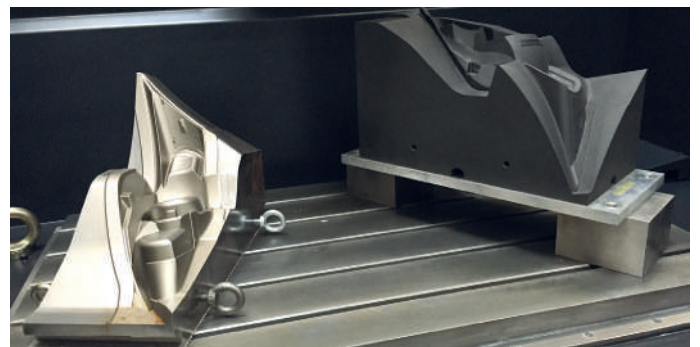
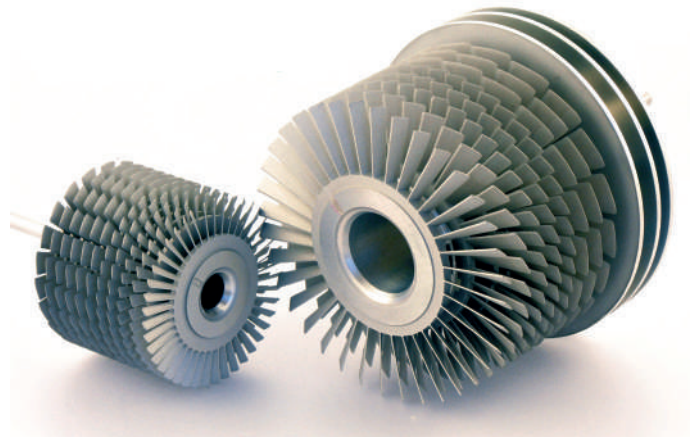


The range of the dielectric synthetic fluids for Die Sinking EDM consists of six viscosity grades containing special additives aimed at facilitating the formation of the ionization channel.

EDMfluid® series S

The advantages offered by this range compared to the traditional dielectric fluids are the following:

- Opportunity to choose the optimal viscosity grade.
- Very narrow distillation ranges.
- High chemical and physical stability.
- Very reduced tendency to evaporate.
- Colourless.
- Odorless.
- Irrelevant presence of light aromatic hydrocarbons ($\leq 0.0001\%$ in volume).
- Very low content of heavy aromatic hydrocarbons ($\leq 0.001\%$ in volume).
- Uniform surface finishing.
- Reduced finishing times.
- Decrease in electrode wear.
- Optimal operational performance for long working periods.
- Very low aggressive action human skin.
- It can be easily filtered even after prolonged working times.
- Very low tendency to foaming phenomena.



PRODUCT	VISCOSITY AT 20°C cSt	FLASH POINT (ASTM D 93) °C	DISTILLATION RANGE (°C)	SCOPE OF APPLICATION
EDMfluid® 80-S	1.83	≥ 80	6	Superfinishing $r_a < 0.8 \mu\text{m}$
EDMfluid® 95-S	2.36	≥ 95	6	Finishing $r_a 0.8 \div 1.6 \mu\text{m}$
EDMfluid® 108 MP-S	3.00	≥ 108	6	Multifunctional, aerospace industry, gas turbines, automotive etc $r_a 1.0 \div 3.2 \mu\text{m}$
EDMfluid® 110 MP-S	3.30	≥ 110	30	For dies intended for die-casting with $r_a 2.0 \div 4.0 \mu\text{m}$
EDMfluid® 113-S	4.10	≥ 112	50	To manufacture dies for extrusion and hot forming in the presence of medium, heavy-duty rough-machining and to generate narrow blind deep cavities $r_a 3.2 \div 5.0 \mu\text{m}$. Amperage ≥ 60 Amper
EDMfluid® 115-S	5.10	≥ 122	45	To manufacture dies with high surface roughness and heavy-duty rough-machining operations with Amperage ≥ 80 Amper, $r_a 3.2 \div 5.0 \mu\text{m}$

Knowledge at it's best. Determined to provide its customers with the best available quality, Sodick constantly pushes innovation.

SODICK, AT GLANCE

OFFICES

Head Office / Research and Technology Center

3-12-1, Nakamachidai, Tsuzuki-ku, Yokohama,
Kanagawa, 224-8522 Japan

Tel.: +81-45-942-3111

Fukui Plant

78, Nagaya, Sakai-cho, Sakai City, Fukui, 919-0598 Japan

Tel.: +81-776-66-8877

Kaga Plant

Ka-1-1, Miya-machi, Kaga City, Ishikawa, 922-0595 Japan

Tel.: +81-761-75-2000

ANNUAL SALES

65.6 billion yen (Total, including for subsidiaries)

36.8 billion yen (Non-consolidated)

*As of the fiscal year ended December 2017

NO. OF EMPLOYEES

3,651 (Total, including for subsidiaries)

701 (Non-consolidated)

*As of the fiscal year ended December 2017

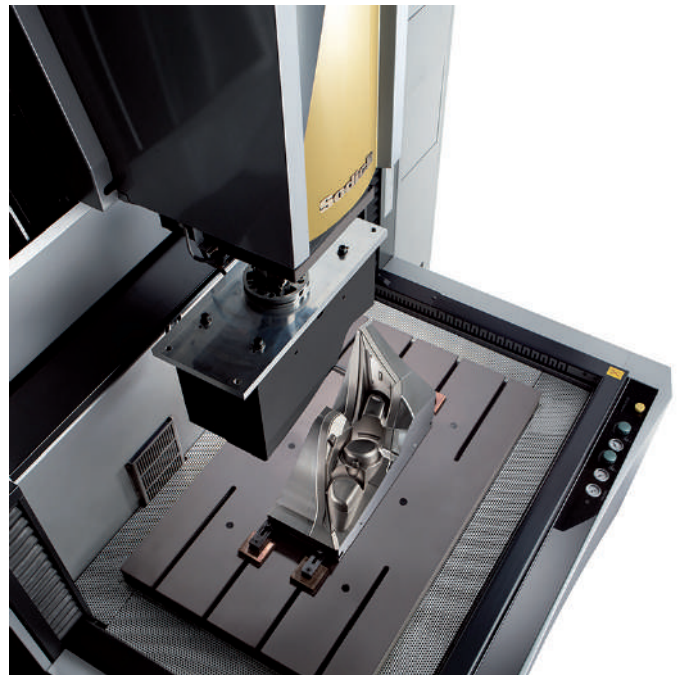
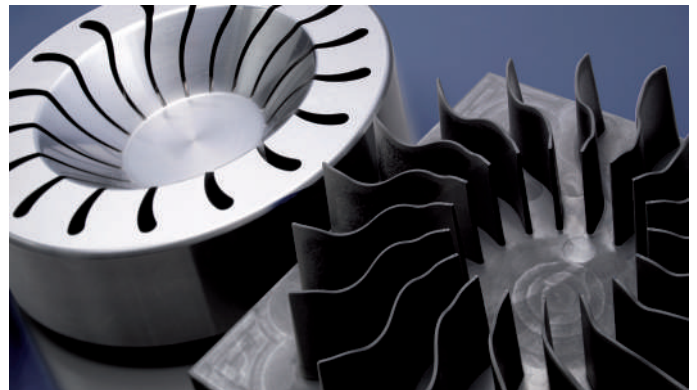
NUMBER OF AFFILIATES

22 companies

*As of the fiscal year ended December 2017

GROUP BUSINESS ACTIVITIES

- Die-Sinker electrical discharge machines (EDM)
- Wire-cut electrical discharge machines (EDM)
- High speed, small-hole drilling EDM
- Customized EDM and optional equipment (Pallet changers and robots)
- CNC and power supply devices
- Precision EDM tooling
- Precision Metal 3D Printer
- High-speed, precision milling center
- Nano-level precision machines
- Integrated production systems
- Thermoplastic Injection Molding Machine
- Thermosetting Plastic Injection Molding Machine
- Magnesium Alloy Injection Machine
- Engineering ceramics
- Linear motors for industrial production machines
- Other electrical machining equipment
- EDM wire
- Precision tool and precision molding products
- Electronic components
- Software
- LED products





STEELFLUID S.r.l.

Corso Torino 2/10 - 16129 Genoa, Italy
Tel. +39 010 54 06 91 - Tel. +39 010 57 09 618
Fax +39 010 54 51 087

steelfluid@steelfluid.it | www.steelfluid.it



SODICK DEUTSCHLAND GMBH

Mündelheimer Weg 57
D - 40472 Düsseldorf-Lichtenbroich

info@sodick.de | www.sodick.de