



STRUB Innocut - Series

The liquid high-tech tools for minimum quantity lubrication

How to achieve optimum results in machining with MMKS technology

- by using the right tool
- by adapting your machine tool to the new technology
- by using the right spraying system
- by using the right lubricant

Features and advantages

- massive reduction in coolant costs
- massive reduction of tool costs
- drastic increase in production speeds
- increase in surface finishes
- savings in disposal costs
- clean production lines and machines
- dry chips
- part savings when cleaning finished parts
- dry, rust- and stain-free workpieces
- saving of resources / environmental protection
- image improvement
- less cases of illness
- increase of employee motivation
- technological advantage over your competitors

Technical data	STRUB Innocut A 1000	STRUB Innocut A 1000-710	STRUB Innocut A 5050	STRUB Innocut L 5000	STRUB Innocut LRS 5000	STRUB Innocut E 84	STRUB Innocut MS 40	STRUB Innocut EM 2100	STRUB Innocut EM 22	STRUB Innocut EM 46	STRUB Innocut P 68
Art.-No.	30772	31663	32499	33283	33284	30944	31978	31023	30851	30479	32464
Appearance	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Dichte [g/cm ³]	0.84	0.903	0.849	0.764	0.77	0.92	0.92	0.85	0.86	0.875	1.06
Viscosity at 40 °C [mm ² /s]	22	16	17.5	2	1.6	40	35	15	22	46	*
Viscosity at 100 °C [mm ² /s]	3					8.5	8	3.8	4.5	7.5	*
Flashpoint [°C]	160	160	160	62	62	> 250	> 250	220	195	220	*
pH-Wert 10 %ig											9.2

* Diluted with water 10% - 30% depending on metal alloy and machining.

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.

Application area	fine - medium chip removal	heavy chip removal	heaviest chipping	High speed machining	Aluminum, Magnesium	Non-ferrous metal	Steel	Cast iron	Precious metals
STRUB Innocut A 1000	+++	+	-	-	+++	+++	+	+	-
STRUB Innocut A 1000-710	+++	+	-	-	+++	+++	+	+	-
STRUB Innocut A 5050	+++	+	-	-	+++	+++	-	-	-
STRUB Innocut L 5000	+++	++	+	+	+++	+++	++	+	-
STRUB Innocut LRS 5000	+++	+	+	+	+++	+++	++	+	-
STRUB Innocut E 84	++	+++	+++	++	++	+	+++	++	+
STRUB Innocut MS 40	+++	++	++	++	++	+++	+++	+	+
STRUB Innocut EM 2100	+++	++	++	+	+++	+++	++	+	+
STRUB Innocut EM 22	+++	++	+	-	+++	++	+++	+	+
STRUB Innocut EM 46	++	+++	+++	+++	++	+	+++	++	+
STRUB Innocut P 68	+++	++	-	-	-	++	+++	+	-

Transport

ADR/SDR

No dangerous goods

Disposal

LVA VeVA / EAK:

12 01 07

We support you in the introduction of this high-tech technology by:

- Sprayers and accessories
- Minimum quantity cooling lubricants. Customized solutions are available
- Support for technical questions

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