

NSL-Neat Cutting Oil

	Product name	JIS Class	Density @ 15°C (g/cm ³)	ASTM Color	Viscosity @ 40°C (cSt)	Fatty (Mass%)	Sulfur (Mass%)	Copper Corrosion (1Hr x 100°C)	Flash Point COC (°C)	Characteristic & Application
Specialty products	SPEED 25GR	N2-3	0.876	L2.0	26.4	-	-	1	216	For sharpening and grinding of cutting tools.
	SPEED 25H	N2-3	0.874	L1.5	25.7	0.4	0.78	1	214	Gear cutting and gear hobbing of steel and its alloys.
	SPEED 32	N2-3	0.874	L1.0	30.3	0.5	1	1	216	For gear cutting of GLEASON machine and can be used for hydraulic oil No.32
	SPEED 32H	N2-3	0.877	L3.0	29.2	0.5	1.1	1	216	Gear cutting and gear hobbing of steel and its alloys.
General products	SPEED F5X	N3-1	0.846	L0.5	5.28	5.5	0.45	1	150	High precision grinding oil and for honing application of steel and ferrous alloys.
	SPEED F5Y	N3-2	0.85	L1.5	5	15	0.3	1	154	Same application to Speed F5X but contains more fatty material for high lubricity.
	SPEED F8	N3-3	0.847	L0.5	10.3	5	0.2	1	180	For general cutting application of all kind of materials.
	SPEED F8X	N3-1	0.848	L0.5	9.8	5.5	0.45	1	172	High lubricity cutting oil for all kind of materials.
	SPEED F10	N1-1	0.847	L0.5	9.93	5	-	1	170	General cutting oil for non-ferrous metals.
	SPEED F15	N3-3	0.846	L0.5	15.3	5	0.21	1	164	General cutting oil for (nonferrous) metals, carbon steel materials on automatic lathes.
	SPEED F15X	N3-4	0.858	L0.5	14.5	10	0.42	1	202	Improved from Speed F15 for higher than of lubricity such as Drilling process
	SPEED F20	N3-3	0.864	L1.5	20.3	2.1	0.6	1	200	Tapping, general cutting of (nonferrous) materials, carbon steel.
	SPEED 20X	N1-4	0.868	0.5	20.5	10	-	1	220	General cutting oil for non-ferrous metals.
	SPEED F25	N2-3	0.869	L1.0	24.7	0.5	0.67	1	218	General cutting oil and cutting of pinion.
	SPEED F30	N1-4	0.878	0.5	30.1	49.5	-	1	264	High flash point cutting oil for general application.
	SPEED F35	N1-4	0.911	L0.5	35.4	98.5	-	1	230	Low mist cutting oil and biodegradable for general cutting application.
	SPEED F40	N1-3	0.875	L1.0	37.1	5	-	1	240	High viscosity neat oil for all kind of material cutting operation.
Provided Inactive Sulfur	SPEED SN12	N3-8	0.858	L3.0	12.2	13	1	1	186	Automatic lathes and CNC machining ferrous and non-ferrous metals.
	SPEED SN15	N3-7	0.868	2	15.8	8	1.53	1	192	Automatic lathes and CNC machining ferrous and non-ferrous metals.
	SPEED SN15BX	N3-8	0.888	1	14.6	62	1.35	1	194	Broaching, automatic lathes machining on non-ferrous metals, carbon steel and its alloy.
	SPEED SN15H	N3-7	0.87	2	15.8	8.5	1.87	1	184	Gear shaving and broaching of non-ferrous metals, carbon steel and its alloy
	SPEED SN15X	N3-8	0.866	L8.0	18.1	14	1.27	1	180	Drilling, automatic lathes machining on non-ferrous metals, carbon steel materials.
	SPEED SN20	N3-8	0.89	L2.5	20.4	10	2.44	1	186	Automatic lathes and CNC machining ferrous and non-ferrous metals.
	SPEED SN20B	N3-8	0.895	L1.5	19.4	62	1.44	1	204	Automatic lathes machining and broaching on ferrous and non-ferrous metals. Has higher viscosity than that of SN15BX.
	SPEED SN25X	N3-8	0.878	L1.5	24.4	23.4	1.3	1	206	Automatic lathes and CNC machining ferrous and non-ferrous metals.
	SPEED SN30	N3-7	0.879	L2.0	31.4	8	1.41	1	212	For automatic lathes or hobbing machine processing on steel alloy and stainless steel materials.
	SPEED SN30Y	-	0.912	L3.0	30.5	31.8	5.66	1	194	Automatic lathes machining on stainless steel, heat resistance steel alloy and stainless steel materials.
Provided Active Sulfur	SPEED SA10G	N4-7	0.856	D8.0	12.1	9.5	1.66	4	166	Deep hole processing like gun drilling, BTA drilling process on carbon steel, steel alloy.
	SPEED SA15	N4-7	0.886	L1.5	17.1	8.9	1.06	4	174	For pipe cutting and screw cutting. Water washable.
	SPEED SA20	N4-7	0.866	7.5	21.4	7.2	1.51	4	192	For screw cutting and tapping on steel alloy, carbon steel materials.
	SPEED SA30	-	0.893	8	30.1	10.8	7.38	4	176	Automatic lathes machining on carbon steel, steel alloy and stainless steel materials.
For EDM	SPEED 1	N1-1	0.753	L0.5	1.3	-	-	-	62 (PMCC)	For surface finishing application and wash away dirt or cutting oil at final process.
	SPEED 3	N1-1	0.797	L0.5	2.53	-	-	-	88	Light duty cutting on (nonferrous) metals and can be used as spindle oil and EDM
	EDM OIL G31	N1-1	0.799	L0.5	2.47	5	-	1	100	High refined base oil for regeneration of carbon electrode.
	EDM OIL TX	N1-1	0.757	L0.5	1.97	-	-	-	72 (PMCC)	For electric discharging machining when ultraprecision machining is required.