

# Neat Cutting OIL

Product Name	JIS	Appearance	Color (ASTM)	Viscosity (40 ) mm <sup>2</sup> /s(cSt)	Flash Point	Copper plate Corrosion		Main Component		Characteristic · Application
	Classifi- cation					100	150	F,O	S	
<b>SPEED F10</b>	N1-1	Light yellow, clear liquid	L0.5	9.9	170	-	1		-	General cutting on (nonferrous) metals.
<b>SPEED 3</b>	N1-1	Clear liquid	L0.5	2.8	88	-	1	-	-	Light duty cutting on (nonferrous) metals.
<b>SPEED 5</b>	N1-1	Light yellow, clear liquid	L0.5	3.5	140	-	1	-	-	For honing, lapping, grinding.
<b>SPEED F5</b>	N1-1	Light yellow, clear liquid	L0.5	5.5	152	-	1		-	Light cutting oil for (nonferrous) metals, carbon steel materials.
<b>SPEED F40</b>	N1-3	Yellow, clear liquid	L1.0	37.1	240	-	1		-	General cutting oil for (nonferrous) metals, carbon steel materials.
<b>SPEED 25GR</b>	N1-3	Yellow-Brown, clear liquid	L2.0	26.4	216	-	1	-		Grinding oil for high speed steel, steel alloy materials.
<b>SPEED F20X</b>	N1-4	Light yellow, clear liquid	0.5	20.5	220	-	1		-	General cutting oil for (nonferrous) metals, carbon steel materials.
<b>SPEED F30</b>	N1-4	Light yellow, clear liquid	L0.5	30.1	264	-	1		-	General cutting oil for (nonferrous) metals, carbon steel materials. Has high flush point.
<b>SPEED F35</b>	N1-4	Light yellow, clear liquid	L0.5	35.4	230	-	1		-	General cutting oil for (nonferrous) metals, carbon steel materials. Suitable for low mist cutting as well. Components are biodegradable.
<b>SPEED F25</b>	N2-3	Yellow, clear liquid	L1.0	24.7	218	-	1			General cutting oil for (nonferrous) metals, carbon steel, suitable for pinion cutting.
<b>SPEED 25H</b>	N2-3	Yellow, clear liquid	L1.5	25.7	214	-	1			For gear-cutting machining e.g. hob. For general carbon steel and steel alloys.
<b>SPEED 32H</b>	N2-3	Yellow, clear liquid	L3.0	29.2	216	-	1			Ditto, Has higher viscosity than that of SPEED 25H.
<b>SPEED 32</b>	N2-3	Yellow, clear liquid	L1.0	30.3	216	1	1			Cutting oil for Gleason gear, compatible with hydraulic oils
<b>SPEED F5X</b>	N3-1	Light yellow, clear liquid	L0.5	5.3	150	1	4			Honing oil for steel and steel alloy.
<b>SPEED F8X</b>	N3-1	Light yellow, clear liquid	L0.5	9.8	172	1	4			General cutting oil for (nonferrous) metals, carbon steel materials. Improved product of F8 in terms of lubricity.
<b>SPEED F5Y</b>	N3-2	Light yellow, slightly turbid liquid	L0.5	5.0	154	1	3			Honing, finish grinding for Steel alloy. The Lubricity has improved, compared to that of F5X.
<b>SPEED F8</b>	N3-3	Light yellow, clear liquid	L0.5	10.3	180	1	3			General cutting oil for (nonferrous) metals, carbon steel materials.

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						100	150			
<b>SPEED F15</b>	N3-3	Light yellow, clear liquid	L0.5	15.3	164	1	4			General cutting oil for (nonferrous) metals, carbon steel materials on automatic lathes.
<b>SPEED F20</b>	N3-3	Yellow, clear liquid	L1.5	20.3	200	1	4			Tapping, general cutting of (nonferrous) materials, carbon steel.
<b>SPEED F15X</b>	N3-4	Light yellow, slightly turbid liquid	L0.5	14.5	202	1	3			Improved product of F15 for hole drilling and automatic lathe of (nonferrous) metals, carbon steels.
<b>SPEED F15Y</b>	N3-4	Light yellow, slightly turbid liquid	L0.5	15.7	204	1	3			General cutting oil for (nonferrous) metals, carbon steel cast-iron on automatic lathes.
<b>SPEED SN15H</b>	N3-7	Yellow-Brown, clear liquid	L2.0	15.8	184	1	4			Gear, shaving, broaching cutting of (nonferrous) metals, carbon steel, steel alloy materials.
<b>SPEED SN30</b>	N3-7	Yellow-Brown, clear liquid	L2.0	31.4	212	1	2			For automatic lathes or hobbing machine processing on steel alloy , stainless steel materials.
<b>SPEED SN15BY</b>	N3-7	Yellow-Brown, clear liquid	L2.0	15.8	192	1	2			Heavy duty cutting with broaching of carbon steel and steel alloy materials.
<b>SPEED SN15</b>	N3-7	Yellow-Brown, clear liquid	L2.0	15.8	192	1	2			Automatic lathes machining on (nonferrous) metals, carbon steel, steel alloy , stainless steel materials.
<b>SPEED SN12</b>	N3-8	Brown, clear liquid	L3.0	12.2	186	1	2			Automatic lathes machining on (nonferrous) metals, carbon steel, steel alloy , stainless steel materials.
<b>SPEED SN15BX</b>	N3-8	Yellow, clear liquid	L1.0	14.6	194	1	2			Broaching, automaic lathes machining on (nonferrous) metals, carbon steel and steel alloy.
<b>SPEED SN15X</b>	N3-8	Dark brown, clear liquid	L8.0	18.1	180	1	2			Drilling, automatic lathes machining on (nonferrous) metals, carbon steel materials.
<b>SPEED SN20</b>	N3-8	Brown, clear liquid	L2.5	20.4	186	1	4			Automatic lathes machining on (nonferrous) metals, carbon, steel alloy , stainless steel materials.
<b>SPEED SN20B</b>	N3-8	Yellow, clear liquid	L1.5	19.4	204	1	2			Automatic lathes machining, broaching on (nonferrous) metals, carbon sttel, steel slloy and stainless steel materials. Has higher viscosity than that of SN15BX.
<b>SPEED SN25X</b>	N3-8	Yellow, clear liquid	L1.5	24.4	206	1	2			Automatic lathes machining on (nonferrous) metals, carbon steel, steel alloy , stainless steel materials.
<b>SPEED SN40</b>	N3-8	Yellow, clear liquid	L1.5	37.3	214	1	2			Automatic lathes machining on (nonferrous) metals, carbon steel, stainless steel materials.
<b>SPEED SN30X</b>	N3-8	Brown, clear liquid	L2.5	30.9	194	1	2			Cutting for stainless steel, carbon steel, (nonferrous) material.
<b>SPEED SA10G</b>	N4-7	Dark brown, clear liquid	D8.0	12.1	166	4	-			Deep hole processing like gun drilling, BTA drilling process on carbon steel , steel alloy.

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<b>SPEED SA15</b>	N4-7	Yellow, clear liquid	L1.5	17.1	174	4	-			For pipe cutting and screw cutting. Water washable.
<b>SPEED SA20</b>	N4-7	Dark brown, clear liquid	7.5	21.4	192	4	-			For screw cutting and tapping on steel alloy, carbon steel materials.
<b>SPEED SA12</b>	N4-7	Brown, clear liquid	L2.5	11.6	170	4	-			Deep hole processing like gun drilling, BTA drilling process of carbon steel, steel alloy.
<b>SPEED SA12X</b>	N4-8	Brown, clear liquid	L2.5	12.3	179	4	-			Deep hole processing like gun drilling, BTA drilling process of carbon steel, steel alloy.
<b>SPEED SN30Y</b>	-	Brown, clear liquid	L3.0	30.5	194	1	3			Automatic lathes machining on stainless steel, heat resistance steel alloy and stainless steel materials.
<b>SPEED SA30</b>	-	Dark brown, clear liquid	8.0	30.1	176	4	-			Automatic lathes machining on carbon steel, steel alloy and stainless steel materials.