



M Chemicals

## BASE OILS / GROUP II / N100

Parameter	Unit	Max Limit Value		Uncertainty	Result	Analysis Method
		Min	Max			
Pour Point	°C		-9,00		-9	ASTM D5950
KF Water Content	mg/kg		50,00		<30	TS 6147 EN ISO 12937-B, ASTM D6304-B
PCB Content	mg/kg				< 1,00	TS EN 12766-1/2-B
Sulphur(S) Content	mg/kg		100,00		27,8	ASTM D5453
Chlorine(Cl) Content	mg/kg				< 1,00	EPA 9076
Viscosity Index(VI)	-	117,00			119	TS ISO 2909, ASTM D2270
Color	ASTM		0,50		L 0,5	TS 1713 ISO 2049, ASTM D1500
Phosphorous(P)	mg/kg				< 1,00	TS 13351, ASTM D5185
Magnesium(Mg)	mg/kg				< 1,00	TS 13351, ASTM D5185
Vanadium(V)	mg/kg				< 1,00	TS 13351, ASTM D5185
Iron(Fe)	mg/kg				< 1,00	TS 13351, ASTM D5185
Silver(Ag)	mg/kg				< 1,00	TS 13351, ASTM D5185
Cadmium(Cd)	mg/kg				< 1,00	TS 13351, ASTM D5185
Lead(Pb)	mg/kg				< 1,00	TS 13351, ASTM D5185
Aluminium(Al)	mg/kg				< 1,00	TS 13351, ASTM D5185
Boron (B)	mg/kg				< 1,00	TS 13351, ASTM D5185
Barium(Ba)	mg/kg				< 1,00	TS 13351, ASTM D5185
Chromium(Cr)	mg/kg				< 1,00	TS 13351, ASTM D5185
Manganase(Mn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Silicon(Si)	mg/kg				< 1,00	TS 13351, ASTM D5185
Molybdenum(Mo)	mg/kg				< 1,00	TS 13351, ASTM D5185
Tin(Sn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Titanium(Ti)	mg/kg				< 1,00	TS 13351, ASTM D5185
Nickel(Ni)	mg/kg				< 1,00	TS 13351, ASTM D5185
Copper(Cu)	mg/kg				< 1,00	TS 13351, ASTM D5185
Arsenic(As)	mg/kg				< 1,00	TS 13351, ASTM D5185
Zinc(Zn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Sodium(Na)	mg/kg				< 1,00	TS 13351, ASTM D5185
Calcium(Ca)	mg/kg				< 1,00	TS 13351, ASTM D5185
Kinematic Viscosity@40°C)	cSt	20,50	23,00		22,00	TS EN ISO 3104, ASTM D445
Kinematic Viscosity@100°C	cSt	4,30	4,60		4,515	TS EN ISO 3104, ASTM D445
Flash Point (Open Cup)	cSt	210,00			225	TS EN ISO 2592, ASTM D92
Density@15°C	kg/m <sup>3</sup>	840,00	850,00		845,2	TS EN ISO 12185, ASTM D4052
Appearance	-				Clear and bright	Visual
Smell	-				Typical	InHouse Method
Acid Number(TAN)	mg KOH/g				0,026	ASTM D664



M Chemicals

## BASE OILS / GROUP II / N150

Parameter	Unit	Max Limit Value		Uncertainty	Result	Analysis Method
		Min	Max			
Pour Point	°C		-9,00		-9	ASTM D5950
KF Water Content	mg/kg		50,00		<30	TS 6147 EN ISO 12937-B, ASTM D6304-B
PCB Content	mg/kg				< 1,00	TS EN 12766-1/2-B
Sulphur(S) Content	mg/kg		100,00		54,1	ASTM D5453
Chlorine(Cl) Content	mg/kg				< 1,00	EPA 9076
Viscosity Index(VI)	-	120,00			119	TS ISO 2909, ASTM D2270
Color	ASTM		0,50		L 0,5	TS 1713 ISO 2049, ASTM D1500
Phosphorous(P)	mg/kg				< 1,00	TS 13351, ASTM D5185
Magnesium(Mg)	mg/kg				< 1,00	TS 13351, ASTM D5185
Vanadium(V)	mg/kg				< 1,00	TS 13351, ASTM D5185
Iron(Fe)	mg/kg				< 1,00	TS 13351, ASTM D5185
Silver(Ag)	mg/kg				< 1,00	TS 13351, ASTM D5185
Cadmium(Cd)	mg/kg				< 1,00	TS 13351, ASTM D5185
Lead(Pb)	mg/kg				< 1,00	TS 13351, ASTM D5185
Aluminium(Al)	mg/kg				< 1,00	TS 13351, ASTM D5185
Boron (B)	mg/kg				< 1,00	TS 13351, ASTM D5185
Barium(Ba)	mg/kg				< 1,00	TS 13351, ASTM D5185
Chromium(Cr)	mg/kg				< 1,00	TS 13351, ASTM D5185
Manganase(Mn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Silicon(Si)	mg/kg				< 1,00	TS 13351, ASTM D5185
Molybdenum(Mo)	mg/kg				< 1,00	TS 13351, ASTM D5185
Tin(Sn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Titanium(Ti)	mg/kg				< 1,00	TS 13351, ASTM D5185
Nickel(Ni)	mg/kg				< 1,00	TS 13351, ASTM D5185
Copper(Cu)	mg/kg				< 1,00	TS 13351, ASTM D5185
Arsenic(As)	mg/kg				< 1,00	TS 13351, ASTM D5185
Zinc(Zn)	mg/kg				< 1,00	TS 13351, ASTM D5185
Sodium(Na)	mg/kg				< 1,00	TS 13351, ASTM D5185
Calcium(Ca)	mg/kg				< 1,00	TS 13351, ASTM D5185
Kinematic Viscosity@40°C)	cSt	30,00	36,00		34,48	TS EN ISO 3104, ASTM D445
Kinematic Viscosity@100°C	cSt	5,50	6,60		5,996	TS EN ISO 3104, ASTM D445
Flash Point (Open Cup)	°C	220,00			237	TS EN ISO 2592, ASTM D92
Density@15°C	kg/m <sup>3</sup>	840,00	850,00		850,6	TS EN ISO 12185, ASTM D4052
Appearance	-				Clear and bright	Visual
Smell	-				Typical	InHouse Method
Acid Number(TAN)	mg KOH/g				0.02	ASTM D664