



Nynas naphthenic process oils.
For a wide range of applications.

Nynas process oils

Decades of research and development have enabled us to create one of the widest ranges of specialty oils available to the chemical industry today. We supply a wide range of specialty oils with high solvent power, excellent low temperature properties, and a low viscosity index, which are suitable for numerous applications.

With a local sales presence, as well as a global supply chain, we can offer fast, efficient, and reliable solutions, to meet the demands of the market anywhere in the world.

www.nynas.com > process oils

N0702001ENG01



Nynas process oils
product guide



Nynas product range of naphthenic process oils for the chemical industry

		NYTEX GRADES									NYFLEX GRADES							
Characteristics, unit	Test method ASTM	NYTEX® 8120	NYTEX® 801	NYTEX® 810	NYTEX® 820	NYTEX® 8150	NYTEX® 832	NYTEX® 840	NYTEX® 846	NYTEX® 4700	NYFLEX® 2120B	NYFLEX® 2005	NYFLEX® 201B	NYFLEX® 3014B	NYFLEX® 808	NYFLEX® 2022	NYFLEX® 223	NYFLEX® 820
Density 15°C, kg/dm³	D 4052	0.871	0.889	0.901	0.916	0.917	0.920	0.923	0.932	0.940	0.859	0.869	0.880	0.866	0.899	0.893	0.897	0.904
Viscosity 40°C, mm²/s (cSt)	D 445	3.9	8.9	22.4	111	146	225	371	580	700	3.2	5.1	8.6	13	16	22	85	99
Viscosity 100°C, mm²/s (cSt)	D 445	1.3	2.2	3.6	8.8	10.2	14	20	21	29	1.2	1.6	2.2	3	3.1	3.9	8.5	8.6
Flash point PM, °C	D 93	109	146	173	212	220	227	246	250	228	107	117	144	160	147	153	220	213
Pour point, °C	D 97	< -70	-57	-45	-30	-24	-21	-15	-12	-12	-87	-75	-63	-39	-54	-46	-36	-30
Sulphur, %	D 2622	< 0.001	0.02	0.04	0.11	0.13	0.11	0.12	0.30	0.5	<0.0005	<0.001	<0.001	< 0.01	< 0.01	< 0.01	<0.01	0.02
Aniline point, °C	D 611	68	70	77	86	90	92	98	89	92	72	76	80	95	78	88	103	94
Refractive Index, 20°C	D 1747	1.474	1.486	1.493	1.502	1.502	1.505	1.507	1.512	N/A	1.466	1.472	1.478	1.472	1.487	1.485	1.488	1.494
Viscosity-Gravity-Constant	D 2501	N/A	0.863	0.859	0.856	0.853	0.851	0.850	0.852	0.868	N/A	N/A	0.854	0.826	0.860	0.849	0.834	0.841
UV Absorptivity 260, nm L/g · cm	D2008	0.34	1.9	1.1	2.3	4.5	3.1	3.9	4.2	N/A	0.05	0.09	0.1	0.1	0.5	0.4	0.5	1.5
Colour	D 1500	< 0.5	< 0.5	< 0.5	< 0.9	< 1.5	< 2.5	< 2.5	2.5	> 8.0	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.8
Colour Saybolt	D 156	+30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	+30	+30	+30	+30	25	25	18	N/A
Total Acid Number, mg KOH/g	D 974	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon-Type Composition, C _a %	D 2140	4*	9	10	12	13	12	12	15	N/A	< 1*	3*	2	0	8	2	2	7
Carbon-Type Composition, C _n %	D 2140	45*	44	42	38	36	36	33	33	N/A	59*	51*	54	45	50	51	43	40
Carbon-Type Composition, C _p %	D 2140	51*	47	48	50	51	52	55	52	N/A	41*	46*	44	55	42	47	55	53
Appearance at 15°C	D 4176	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	N/A	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright	clear & bright
DMSO extractible compounds, Wt%	IP 346	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	N/A **	N/A**	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
FDA §178.3620 compliance											§(b)	§(b)	§(b)	§(b)	§(c)	§(c)	§(c)	

*Modified ASTM D2140.
**Nynas process oils comply to very low polycyclic aromatic hydrocarbon (PAH) limits, in particular those specified by 1907/2006/EC, Annex XVII, Entry 50 (REACH).

