

Chemical intermediates at a glance

ExxonMobil building blocks
for derivatives



ELEVEXX™ LINEAR ALPHA OLEFINS

TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	Elevexx 1000	Elevexx 1200	Elevexx 1400	Elevexx 1600	Elevexx 1800	Elevexx 2024
Chemical name		1-decene	1-dodecene	1-tetradecene	1-hexadecene	1-octadecene	Alkenes, C2024 alpha
CAS Number		872-05-9	112-41-4	1120-36-1	629-73-2	112-88-9	93924-10-8
Carbon number purity	wt% AMS 1798	> 98	> 99	> 96	> 98	> 98	> 95
Total alpha olefins	wt% AMS 1798	> 96	> 94	> 93	> 91	> 88	> 80
Total paraffins	wt% AMS 1918	0,2 max	0,2 max	0,3 max	0,3 max	0,3 max	n/a
Color	ASTM D6045 Saybolt	30	30	30	30	30	30
Appearance	ASTM D4176	Pass	Pass	Pass	Pass	Pass	Pass
Water	wppm ASTM E1064	100 max	100 max	100 max	100 max	100 max	100 max

EXXAL™ BRANCHED ALCOHOLS

TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	Exxal 8	Exxal 9	Exxal 9S	Exxal 10	Exxal 11	Exxal 13
Chemical name		Isooctanol	Isononanol	Isononanol	Isodecanol	Isoundecanol	Isotridecanol
CAS Number		68526-83-0	68526-84-1	68526-84-1	68526-85-2	68551-08-6	68526-86-3
Acid value	mg KOH /g ASTM D1045*	0,03	0,03	0,05 (ASTM D1613*)	0,03	0,02	0,01
Boiling range	°C ASTM D1078	186-196	204-214	201-206	218-223	232-238	255-266
Color	Pt-Co ASTM D5386	2	2	5 (ASTM D1209)	3	1	5
Carbonyl number	mg KOH/g BRCP4588 ASTM E411 ROP196	0,05	0,1	0,1	0,1	0,02	0,1
Density	g/cm³ ASTM D4052	0,830	0,835	0,835	0,837	0,840	0,846
Flash point	°C ASTM D93	80	92	92	100	109	123
Hydroxyl number	mg KOH/g ISO1843-5/77	427	376	376	349	320	284
Pour point	°C ASTM D5950*	< -40	< -40	< -40	< -40	< -40	< -40
Purity	wt% total alcohol ROP105 BRCP5287**	> 99	> 99	> 99	> 99	> 99	> 98,5
Viscosity at 20°C	mm²/s ASTM D7042	13	17	17	21	27	48

* = modified methods

** = EM test methods

EXXONMOBIL™ NEO ACIDS

TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ExxonMobil neodecanoic acid
Chemical name		Neodecanoic acid
CAS Number		26896-20-8
Acid value	mg KOH/g BRCP 4522**/ASTM D1980	321-326
Boiling range	°C ASTM D1078	248-270
Color	Pt-Co BRCP 4273**/ASTM D5386	3-10
Density	g/cm³ ASTM D7042	0,911
Flash point	°C ASTM D92	140
Water content	wt% BRCP 4526**/ASTM E1064	< 0,1
Pour point	°C ASTM D5950	< -40
Acid Purity***	wt% BRCP 4523**	> 99 %
Viscosity at 20 °C	mm²/s ASTM D7042	43

* = modified methods

** = EM test methods

*** = not a sales specification

EXXONMOBIL™ BRANCHED HIGHER OLEFINS

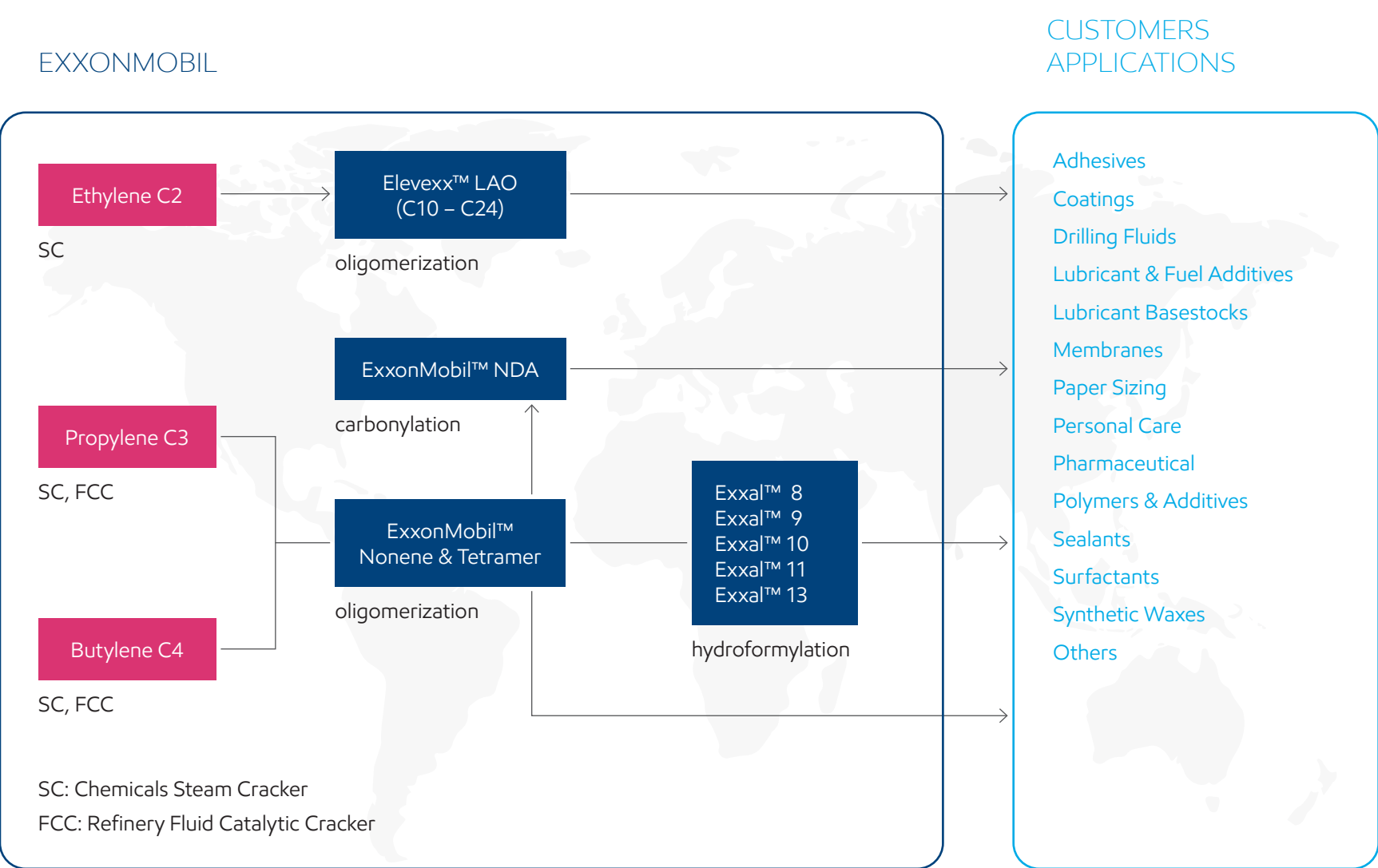
TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ExxonMobil nonene	ExxonMobil tetramer
Chemical name		Nonene	Dodecene
CAS number**		68526-55-6	68526-58-9
Boiling range	°C ASTM D86*	135-146	180-205
Color	Pt-Co ASTM D6045	< 15	< 30
Specific gravity	at 20 °C ASTM D4052*	0,738-0,743	0,770-0,774
Flash point	°C ASTM D56	26	55
Sulfur content	wppm ASTM D5453	< 10	< 10
Olefin content	wt%	> 98,5	> 98
Peroxides	wppm ASTM D2340*	< 10	< 10

* = modified methods

** CAS numbers may differ from region.
Consult your sales contact for details.

INTEGRATED, GLOBAL AND GROWING PLATFORM



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