



R&O HYDRAULIC FLUID SERIES

CHAMPION R&O HYDRAULIC FLUID series includes our general purpose lubricants made from Group I & II extreme low sulfur base stocks and designed where inherently biodegradable hydraulic fluid or general R&O fluids are specified. They are a cost effective alternatives to full synthetic biodegradable fluids and work well in vane, piston or gear pumps and are often used as a general purpose industrial lubricants.

CHAMPION R&O HYDRAULIC FLUID series are zinc-free. These reduced environmental impact lubricants are inherently biodegradable by OECD 203 1-12 Test Method and low in toxicity. They perform well in both aqueous acute toxicity tests and “ultimate” biodegradability tests.

TYPICAL SPECIFICATION

ISO Grade	22	32	46	68	100
Product Code	4017	4018	4019	4192	4211
MSDS #	1200	1200	1200	1200	1200
Color	None	None	None	Slight	Amber
Gravity API @ 60° F	33.9	32.4	31.7	31.5	30.1
cSt @ 40°C	20.5	33.5	43.2	67.0	100.3
cSt @ 100°C	4.1	5.5	6.5	8.6	11.1
SUS @ 104°F	100	157	200	311	465
SUS @ 212°F	40	44	48	54	63
Viscosity Index	98	99	100	99	95
Pour Point ° F	0	3	5	7	9
Flash Point ° F	400	420	450	480	512
% Biodegradability in 28 days OECD 301B	22	22	22	22	22
96-Hour Toxicity, Aquatic, OECD 203 1-12 LC50 (Rainbow Trout), ppm	Nontoxic	Nontoxic	Nontoxic	Nontoxic	Nontoxic

Call Our Friendly Sales Representatives for Available Package Sizes

4017 4018 4019 4192 4211

EFFECTIVE 04/05

**CHAMPION BRANDS, L.L.C. • 1001 Golden Drive • Clinton, MO 64735
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