

# CCC OLEOMARKET

## Chemical Compatibility Chart

Oleomarket-CCC è da considerarsi un prontuario di semplice e veloce consultazione per la compatibilità chimica dei fluidi con i tubi Markhip e Inserti a pressare Olmark. Le indicazioni si riferiscono al sottostrato del tubo, la copertura esterna invece ha la funzione di protezione e non è da ritenersi compatibile con gli stessi agenti chimici dei fluidi previsti per il sottostrato.

Le indicazioni e raccomandazioni riportate nella Chemical Compatibility Chart sono basate da esperienze dirette e consultazione dei produttori. Altresì è corretto considerare questa guida puramente indicativa e non completamente esaustiva. Nella scelta del tubo idoneo si raccomanda pertanto di considerare anche i fattori collegati di pressione, temperatura del fluido e ambientali, oltre ad altri agenti influenti all'impiego.

È sempre consigliabile porre particolare attenzione anche alle disposizioni di legge e le conformità generali, si consiglia di contattare con priorità il produttore del fluido e non considerare come compatibili dei fluidi simili a marca diversa. Considerando l'elevata possibilità di causare danni a cose o persone nella scelta di un prodotto errato, in fase di progettazione, per qualsiasi dubbio consultare l'ufficio tecnico Oleomarket.

Oleomarket non si assume alcuna responsabilità per utilizzo errato o improprio dei dati e delle avvertenze riportate. Chi consulta e applica le Oleomarket-CCC è responsabile di aver consultato la revisione di ultimo aggiornamento.

Legenda per uso Oleomarket-CCC	
Il fluido esercita un cambiamento minimo o nullo delle proprietà fisiche	<b>O</b> <i>The fluid exerts little or no change in physical properties</i>
Il fluido esercita un cambiamento medio e/o marginale con effetti rilevabili sulle proprietà fisiche	<b>M</b> <i>The fluid exerts a medium and / or marginal change with detectable effects on physical properties</i>
Il fluido esercita un severo cambiamento con GRAVI effetti sulle proprietà fisiche	<b>X</b> <i>The fluid exerts a severe change with SERIOUS effects on physical properties</i>
Informazioni Non Disponibili. Nessuna classificazione.	<b>nd</b> <i>Information Not Available. No classification.</i>

Briefing Note :	
In caso di utilizzo per aria o applicazioni gassose superiori a 250 psi (170Bar), il tubo deve essere richiesto con rivestimento microforato (Pin Pricked)	<b>(b1)</b> <i>In case of use for air or gaseous applications above 250 psi (170Bar), the hose must be requested with micro-perforated lining (Pin Pricked)</i>
Prima di validare l'applicazione, considerare anche le Norme di Legge e le clausole Assicurative. Per ulteriori informazioni interpellare ufficio tecnico OLEOMARKET.	<b>(b2)</b> <i>Before validating the application, also consider the Laws and Insurance clauses. For further information, contact the OLEOMARKET technical office.</i>
Alcuni tubi NON sono utilizzabili per questo tipo di carburante. Interpellare ufficio tecnico OLEOMARKET.	<b>(b3)</b> <i>Some hoses are NOT suitable for this type of fuel. Contact the OLEOMARKET technical office.</i>
Non tutti i fluidi refrigeranti sono compatibili con i tubi indicati. Si consiglia di valutare ogni caso segnolo tenendo presente una piccola permeazione è ammessa. Interpellare ufficio tecnico OLEOMARKET	<b>(b4)</b> <i>Not all refrigerant fluids are compatible with the indicated hoses. It is recommended to evaluate each case individually bearing in mind that a small permeation is allowed. Contact the OLEOMARKET technical office</i>
Non tutte le applicazioni sono considerabili idonee. Interpellare ufficio tecnico OLEOMARKET comunicando temperatura e caratteristiche di impiego.	<b>(b5)</b> <i>Not all applications are considered suitable. Contact the OLEOMARKET technical office, communicating the temperature and characteristics of use.</i>
Considerare idoneità SOLO per lavaggio o flussaggio tubo	<b>(b6)</b> <i>Consider suitability for hose washing or flushing ONLY</i>
Valutare i dettagli e contattare il Reparto tecnico OLEOMARKET per concordare i requisiti tecnici e la conformità di legge per l'applicazione corretta.	<b>(b7)</b> <i>Evaluate the details and contact the OLEOMARKET Technical Department to agree on the technical requirements and legal compliance for the correct application.</i>
Impiegare massimo 70 °C. Per dubbi consultare ufficio tecnico OLEOMARKET	<b>(b8)</b> <i>Use maximum 70 °C. For doubts, consult the OLEOMARKET technical office</i>
Per RACCORDI con tenuta a guarnizione (NBR o Viton) alcuni fluidi NON sono completamente idonei. Per inserti con tenuta a guarnizione verificare indicatore a tabella e/o Interpellare ufficio tecnico OLEOMARKET.	<b>(b9)</b> <i>For FITTINGS with gasket seal (NBR or Viton) some fluids are NOT completely suitable. For inserts with gasket seal check the indicator in the table and / or Contact the OLEOMARKET technical office.</i>

Oleomarket-CCC is to be considered a quick and easy reference manual for the chemical compatibility of fluids with Markhip hoses and Olmark crimped fittings. The indications refer to the inner hose, the external cover instead has the function of protection and is not to be considered compatible with the same chemical agents of the fluids provided for the inner hose.

The indications and recommendations reported in the Chemical Compatibility Chart are based on direct experience and consultation with manufacturers. It is also correct to consider this guide purely indicative and not completely exhaustive. In choosing the suitable pipe, it is therefore recommended to also consider the related factors of pressure, fluid temperature and environment, as well as other influencing agents for use.

It is always advisable to pay particular attention to the legal provisions and general compliance, it is advisable to contact the fluid manufacturer with priority and not to consider similar fluids of different brands as compatible. Considering the high possibility of causing damage to things or people in the choice of an incorrect product, during the design phase, for any doubts consult the Oleomarket technical office.

Oleomarket assumes no responsibility for incorrect or improper use of the data and warnings returned. Those who consult and apply the Oleomarket-CCC are responsible for having consulted the revision of the latest update.

MARKHIP® Hose Hi-Tech							OLMARK Hydraulic Connexion			
Hose Series Code	Hose Series Code	Hose Series Code	Hose Series Code	Hose Series Code	Hose Series Code	Hose Series Code	Series Code Excluding	Fitting Series Code	Seal Series Code	Seal Series Code
CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
TF1SN							(escluso O-RING) (excluding O-Ring)			
TF1ST										
TF2SN	TF2PX									
TF2ST										
TF3CP	TF3PX									
TFCPX	TF4PX									
TFDCP	TF4SH			TFFL						
TFDCS	TF4SHH			TF1HD						
TFDCSH	TF4SP			TFR7 TFR7B						
TFDL2	TF4SPH			TFR7T TFB7T						
TFPD1	TFBTK			TFR7N						
TFPD2	TFPZ3			TFR7Y						
TFR5-	TFR12			TFR8 TFR8B						
TFSTP	TFR13			TFR8T TFB8T						
TFTPR	TFR9R			TFR8N						
TFR3-	TFRG3			TFR8Y			IP			
TFR4-	TFRG3H			TFR18 TFB18	TFR7S		BP	IX		
TFR4P	TFRG4			TFP1	TFR7TS		II	BX		
TFR6	TFRG4H			TFUJ7	TFR7SA		BI	IIX		
TF1TE	TFRG5RM	TFW1B		TFBUJ7	TFR8S	TF31C	MP	BIX		
TF2TE	TFSS4	TFH2B	TFC1B	TFUJ8	TFR8TS	TF312	MU	MPX	GOR	
TF3TE	TFSS4H	TFH4B	TFC2B	TMC60	TFR8SA	TF332	IB	MUX	GTRAP	GORV

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# OLEOMARKET

## Chemical Compatibility Chart



FLUID	FLUIDO	Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HN-BR -20°C a +100°C)	Seal Viton (FKM-FPM -10°C a +200°C)
A	A	CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
3M FC-75	3M FC-75	O	O	O	O (b8)				O	O		
ACETALDEHYDE	Aldeide Acetica				O (b8)	M	M	O				
Acetic Acid 10%	Acido acetico 10%	X	X	X	O (b8)	O	X	O	X	O	O	X
Acetone	Acetone	X	X	X	O (b8)	M	O	O	O	O	X	X
Acetylene	Acetilene	X	X	X	X	O	nd	O			O	O
AEROSHELL Fluid 41	AEROSHELL Fluid 41	O		F	nd			O			O	O
AEROSHELL Turbine Oil 500 (See MIL-L-23699)	AEROSHELL Olio per turbine 500 (vedi MIL-L-23699)	M	X	X	X			O	O	O	O	O
Agip Arnica 46	Agip Arnica 46	O	O	M	O	O	O	O	O	O	O	O
Agip Arnica extra plus	Agip Arnica extra plus	X	M	M	X	O	O	O	O	O	O	O
Agip Arnica plus	Agip Arnica plus	O	O	O	O	O	O	O	O	O	O	O
Agip Arnica S46	Agip Arnica S46	M	O	O	M	O	O	O	O	O	O	O
Agip oSo 32	Agip oSo 32	O	O	O	O	O	O	O	O	O	O	O
Agip synth 2000	Agip synth 2000	M	O	O	O	M	O	O	O	O	M	O
Agip tecsint S15W40	Agip tecsint S15W40	O	M	X	O	M	O	O	O	O	O	O
Air [<80°C]	Aria [<80°C]	O	O	O	O	O	O	O	O	O	O	O
Air (dry) [100°C]	Aria secca [100°C]	(b1 (b5)	(b1 (b5)	(b1 (b5)	(b1 (b5)	(b1 (b5)	(b1 (b5)	O	O	O	X	O
Air (dry) [150°C]	Aria secca [150°C]	(b1 (b5)	X	X	(b1 (b5)	X	X	O	O	O	X	O
Alcohol (Methanol-Ethanol)	Alcol (Metanolo-Etanolo)	M	M	M	O (b8)	O	O	O	M	O	O	X
Alusol M	Alusol M	O		O	nd							
Ambra Multi G (NH 410 B)	Ambra Multi G (NH 410 B)	O		O	nd							
Ammonia (Anhydrous)	Ammoniacca (Anidro)	X	X	X	X	X	X	X	X	X	O	X
Ammonium Carbonate, 10%	Carbonato d'ammonio, 10%					nd	M		X	X		
Ammonium Chloride, 10%	Cloruro d'ammonio, 10%	O	O	O	O (b8)	O	X	O	X	X		
Ammonium Hydroxide	Iddossido d'ammonio	M	M	M	O (b8)	M	O	O	M	O		
Ammonium Nitrate	Nitrato di ammonio	O	O	M	O (b8)				M	O		
Ammonium Phosphate	Fosfato di ammonio	O	O	O	O (b8)				X	M		
Ammonium Sulfate (aqueous solution)	Solfato di ammonio (soluzione acquosa)	O	O	O	O (b8)	M	nd		M	M		
Amoco 32 Rykon	Amoco 32 Rykon	O	X	O	M			O	O	O	O	O
Ampol PE 46	Ampol PE 46	X	X	X	X				O	O		
AMSOIL Synthetic ATF	AMSOIL Synthetic ATF	M	M	O	O (b8)	M	O	O	O	O	M	O
Amyl Acetate	Acetato di Amile					M	X		X	O		
Amyl Alcohol	Alcool Amilico	X	X	X	O (b8)	O	O		X	O		
Anderol 495,497,500,750	Anderol 495,497,500,750	M	X	X	O (b8)				O	O		
Aniline	Anilina	X	X	X	O (b8)	X	X	O	O	O		
Animal Fats	Grasso animale	M	X	M	O (b8)			O	see (b5)	O	O	O
Antimony Chloride, 10%	Cloruro di Antimonio (10%)					nd	X					
Aquacent Light, Heavy	Aquacent leggera, pesante	O	X	O	X				O	O		
Aral Vitam HF46	Aral Vitam HF46	O	O	O	X							
Argon	Argon	O	O	O	O				O	O		
Aromatic 100,150	Aromatici 100,150	M	X	M	nd	M	O	O	O	O		
Arrow 602P	Arrow 602P	O	O	O	O				O	O		
Asphalt	Asfalto (catrame)	M	X	M	M	O	O	O	M	O		
ASTM Fuel A	Combustibile ASTM A					O	O	O	O	O	O	O
ASTM Fuel B	Combustibile ASTM B					O	O	O	O	O	O	O
ASTM Fuel C	Combustibile ASTM C					M	nd	O	O	O	O	O
ASTM oil n°1, 100°C	ASTM oil n°1, 100°C	O	O	O	O (b8)	O	O	O	O	O	O	O
ASTM oil n°2, 100°C	ASTM oil n°2, 100°C	M	O	O	M (b8)			O	O	O	O	O
ASTM oil n°3, 100°C	ASTM oil n°3, 100°C	M	M	M	M (b8)	O	M	O	O	O	O	O
ATF-M	ATF-M	O	M	O	O			O	O	O	O	O
Atlas Copco roto H	Atlas Copco roto H	O	M	M	O			O	O	O	O	O
Atlas Copco roto inject fluid	Atlas Copco roto inject fluid	M	M	M	M			O	O	O	O	O
Atlas Copco roto inject fluid plus	Atlas Copco roto inject fluid plus	O	M	M	O			O	O	O	O	O
Atrazine	Atrazina					O	nd	O	O	O		
Automotive Brake Fluid	Liquido per freni	X	X	X	X	nd	M		X	X		
Avantin 361	Avantin 361	O		O	nd	O	O		O	O		
Avia HVI 46	Avia HVI 46	O	M	M	O	O	O	O	O	O	O	O
Avia Syntofluid f 46	Avia Syntofluid f 46	M	O	O	M	M	O	O	O	O	M	O
Avia Syntofluid n 32	Avia Syntofluid n 32	M	O	O	M	M	O	O	O	O	M	O
Avia Syntofluid PE B50	Avia Syntofluid PE B50	M	O	M	nd	M	O	O	O	O	M	O
Avialith 2 WC	Avialith 2 WC	O		O	nd	O	O	O	O	O	O	O
AW 32,46,68	AW 32,46,68	O	M	O	O	O	O	O	O	O	O	O
B	B											
Barium Chloride, 10%	Cloruro di Bario, 10%					nd	X					
Barium Sulfate, 10%	Solfato di Bario, 10%					nd	O					
BCF	BCF	M	M	M	M (b8)				O	O		
Beer	Birra					O	O	O				
Benz Petraulic 32,46,68,100,150,220,320,460	Benz Petraulic 32,46,68,100,150,220,320,460	O	M	O	O			O	O	O	O	O

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## Chemical Compatibility Chart

**MARKHIP®**  
Hose Hi-Tech™

**OLEOMARKET** Hydraulic Connexion

FLUID	FLUIDO	Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HNBR -20°C a +100°C)	Seal Viton (FKM-PPM -10°C a +200°C)
		CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
Benzene, Benzol	Benzene, Benzolo	X	X	X	X	M	O	O	O	O	X	O
Benzgrind HP 15	Benzgrind HP 15	O		O	O (b8)			O	O	O	O	O
Benzoid Acid, 10%	Acido Benzoico, 10%					nd	X					
Biodegradable Hydraulic Fluid 112B	Biodegradable Hydraulic Fluid 112B	M	X	O	X	nd	nd		O	O		
Biodiesel E20	Biodiesel E20	X	X	M	X	nd	nd	O			O	O
Biodiesel E100	Biodiesel E100	X	X	M	X	nd	nd	O			O	O
Biodiesel E60	Biodiesel E60	X	X	M	X	nd	nd	O			O	O
Biodiesel E80	Biodiesel E80	X	X	M	X	nd	nd	O			O	O
Borax Solutions	Soluzione di Borace	M	M	M	M (b8)	O	nd		M	O		
Boric Acid, 10%	Acido bórico, 10%	O	O	O	X	O	nd	O	X	O	O	O
BP a 0629/028	BP a 0629/028	O	M	M	O			O	O	O	O	O
BP Biohyd Se-S 46	BP Biohyd Se-S 46	M	O	O	M	nd	nd	O	O	O	O	O
BP Vanellus C 5	BP Vanellus C 5	M	M	M	M			O	O	O	O	O
Brayco 882	Brayco 882	O	X	O	O (b8)			O	O	O	O	O
Brayco Micronic 745	Brayco Micronic 745	O	X	X	M			O	O	O	O	O
Brayco Micronic 776RP	Brayco Micronic 776RP	O	M	O	M			O	O	O	O	O
Brayco Micronic 889	Brayco Micronic 889	M	X	M	nd			O	O	O	O	O
Brine	Brina	M	M	M	O (b8)				X	M		
Bromine (ANHYDROUS)	Bromo (Anidro)					X	X					
Bromine Water, 25%	Bromo ( Sol.ne Acquosa 25%)					nd	O					
Butane	Butano	O	O	O	O	O	O	nd	O	O	O	O
Butirric Acid, 10%	Acido Butirrico (10%)	(b2 (b7	(b2 (b7	(b2 (b7	(b2 (b7	(b2 (b7	(b2 (b7	(b2 (b7				O
Butyl Acetate	Acetato di Butile					nd	X					
Butyl Alcohol, Butanol	Alcool butilico, Butanolo	M	M	M	O (b8)	nd	M	O	M	O	O	O
C	C											
Calcium bicarbonate	Bicarbonato di Calcio	O	O	O	O				M	X		
Calcium Chloride, 5%	Cloruro di calcio, 5%	O	O	O	O (b8)	M	X	O	M	X		
Calcium hydroxide (aqueous suspensions)	Idrossido di calcio (sospensioni acquose)	O	O	O	O (b8)				O	O		
Calcium Hypochlorite, 5%	Ipclorito di calcio, 5%	X	X	X	O (b8)	O	X		X	X		
Calcium Thiocyanate	Tiocianato di Calcio					nd	X		X	X		
Calibrating Fluid	Calibrating Fluid	O	O	O	O				O	O		
Carbon Dioxide, gas	Anidride carbonica Gas (Biossido di carbonio, gas)	M	M	M	M (b8)	O	O		O	O		
Carbon Disulfide	Disolfuro di carbonio	X	X	X	O (b8)	M	nd		O	O		
Carbon Monoxide (hot)	Monossido di carbonio (caldo)	M	M	M	O (b8)	O (b1)	nd	O	M	M	M	O
Carbon Tetrachloride	Tetracloruro di carbonio	X	X	X	O (b8)	M	O	O	see (b5)	see (b5)		
Carbonic Acid, 10%	Acido carbonico, 10%	M	M	M	X	O	O	O	X	M	O	O
Castor Oil	Olio Castor	O	O	O	O (b8)	O	O	O	O	O	O	O
Castrol 5000	Castrol 5000	M	X	M	O (b8)			O	O	O	O	O
Castrol aero Hf 585 B	Castrol aero Hf 585 B	M	M	M	M			O	O	O	O	O
Castrol anvol SWX 68	Castrol anvol SWX 68	M	O	O	M			O	O	O	O	O
Castrol Biotech alpin 22	Castrol Biotech alpin 22	X	O	O	X	nd	nd	O	O	O	O	O
Castrol Carelube HtG	Castrol Carelube HtG	M	M	M	M			O	O	O	O	O
Castrol Hyspin HDH 7000	Castrol Hyspin HDH 7000	O	O	O	O			O	O	O	O	O
Castrol proDUCT I 571	Castrol proDUCT I 571	M	M	M	M			O	O	O	O	O
Castrol Wendax	Castrol Wendax	O	O	O	nd			O	O	O	O	O
Castroltransynd rD	Castroltransynd rD	M	M	M	O	M	O	O	O	O	M	O
Cellosolve Acetate	Cellosolve Acetate	X	X	X	X				X	O		
Celluguard	Celluguard	O	O	O	nd				O	O		
Cellulube 90, 150, 220 300, 550, 1000	Cellulube 90, 150, 220 300, 550, 1000	X	X	X	nd				O	O		
CepSa Hydraulic Hm 46	CepSa Hydraulic Hm 46	O	M	M	O	O	O	O	O	O		
Chevron Clarity AW 32, 46, 68	Chevron Clarity AW 32, 46, 68	O	O	O	O	O	O	O	O	O	O	O
Chevron FLO-COOL 180	Chevron FLO-COOL 180	M	M	M	nd			O	O	O	O	O
Chevron FR-8, 10, 13, 20	Chevron FR-8, 10, 13, 20	X	X	X	X			O	O	O	O	O
Chevron Hydraulic Oils AW MV 15, 32, 46, 68, 100	Chevron olii idraulici AW MV 15, 32, 46, 68, 100	O	O	O	O	O	O	O	O	O	O	O
Chevron HyJet IV (9)	Chevron HyJet IV (9)	X	X	X	X			O	O	O	O	O
Chevron rycon mV	Chevron rycon mV	M	M	M	M			O	O	O	O	O
Chlorine (DRY)	Cloro (ANIDRO)					X	X	nd			X	O
Chlorine (WET)	Cloro (UMIDO)					X	X	nd			X	O
Chloroacetic Acid, 10%	Acido Cloroacetico (10%)					X	X					
Chlorobenzene	Clorobenzene					X	nd					
Chloroform	Cloroformio					X	X	O			X	O
Chlorosulfonic Acid	Acido Clorosolfonico					X	X					
Chromic Acid, 10%	Acido Cromico (10%)					X	X	O			X	O
Citric Acid	Acido citrico	O	M	M	X	O	M	O	X	see (b5)	O	O
Commonwealth EDM 242, 244	Commonwealth EDM 242, 244	O	O	O	nd				O	O		
CompAir CN300	CompAir CN300	X	X	X	O (b8)				O	O		
CompAir CS100, 200, 300, 400	CompAir CS100, 200, 300, 400	X	X	X	O (b8)				O	O		
Condat D46 - D68	Condat D46 - D68	O	M	O	nd							
Coolanol 15, 20, 25, 35, 45	Coolanol 15, 20, 25, 35, 45	O	O	O	O (b8)				O	O		
Copper Chloride	Cloruro di rame	O	M	O	X	O	X		X	X		
Copper Cyanide	Cianuro di Rame					nd	nd		X	X		
Copper Sulfate	Solfato di rame	O	O	O	X	O	nd		X	M		

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FLUID	FLUIDO	Hose Hi-Tect™							Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HNBR -20°C a +100°C)	Seal Viton (FKM-FPM -10°C a +200°C)
		Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose				
		CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
Cosmolubric HF-122, HF-130, HF-144	Cosmolubric HF-122, HF-130, HF-144	O	X	M	X				O	O		
Cosmolubric HF-1530	Cosmolubric HF-1530	O	X	M	X				O	O		
Cottonseed Oil	Olio di cotone	O	M	O	M (b8)	O	O	O	O	O		
CPI CP-4000	CPI CP-4000	X	X	X	O (b8)				O	O		
Cresol	Cresolo					nd	X					
Crude Petroleum Oil	Petrolio greggio	O	M	O	O	O	O	O	M	O	O	O
CSS 1001 Dairy Hydraulic Fluid	CSS 1001 Dairy Hydraulic Fluid	O	M	O	O (b8)	O	O	O	O	O		
Cyclohexane	Cicloesano					O	nd	O				
D	D											
Daphne AW32	Daphne AW32	O	O	O	O			O	O	O	O	O
Dasco FR 201-A	Dasco FR 201-A	O	O	O	nd			O	O	O	O	O
Dasco FR150, 200, 310	Dasco FR150, 200, 310	O	M	O	nd			O	O	O	O	O
Dasco FR300, FR2550	Dasco FR300, FR2550	X	X	X	nd				O	O		
Dasco FR355-3	Dasco FR355-3	O	X	M	X			O	O	O	O	O
Deicer Fluid 419R	Deicer Fluid 419R	O	O	O	nd			O	O	O	O	O
Dexron II ATF	Dexron II ATF	O	M	O	O			O	O	O	O	O
Dexron III ATF	Dexron III ATF	M (b1)	X	M (b1)	O (b1 (b8))			O	O	O	O	O
Dibutyl phthalate (DBp)	Ftalato di Butile	X	X	X	X	O	nd					
Diesel Fuel (70°C)	Combustibile diesel (70°C)	O	M	M	O	O	O	O	O	O	O	O
Diesel fuel Bio rme	Combustibile diesel Bio rme	(b3)	(b3)	(b3)	(b1 (b8) (b2 (b3) (b2 (b3) (b2				O	O	O	O
Diester Fluids	Fluidi diesterici	X	X	X	X		nd		O	O		
Diethyl Phthalate	Ftalato di Ottille	X	X	X	X		nd					
Diethyl Sebacate	Sebacato di Ottille					O	nd					
Divinol HLP 46	Divinol HLP 46	O		O	nd							
DOT III-IV	DOT III-IV (fluido freni)	X	X	X	X	nd	O	O				
Dow Corning 2-1802 Sullair (24KT)	Dow Corning 2-1802 Sullair (24KT)			nd	M (b8)			O	O	O	O	O
Dow Corning DC 200, 510, 550, 560, FC126	Dow Corning DC 200, 510, 550, 560, FC126	O	O	O	O (b8)			O	O	O	O	O
Dow HD50-4	Dow HD50-4	M	M	M	nd			O			O	O
Dow Sullube 32	Dow Sullube 32			nd	M (b8)			O	O	O	O	O
Dowtherm A,E	Dowtherm A,E	X	X	X	O (b8)			O	O	O	O	O
Dowtherm G	Dowtherm G	X	X	X	X			O	O	O	O	O
Duro AW-16, 31	Duro AW-16, 31	O	O	O	nd			O	O	O	O	O
Duro FR-HD	Duro FR-HD	O	O	O	nd			O	O	O	O	O
E	E											
EcoSafe FR-68	EcoSafe FR-68	O	O	O	nd			O	O	O	O	O
Esso nuto H46	Esso nuto H46	O	M	M	O	O	O	O	O	O	O	O
Esso Univis n46	Esso Univis n46	O	M	M	O	O	O	O	O	O	O	O
Esso Volt 35	Esso Volt 35	O	O	O	O (b8)	O	O	O	O	O	O	O
Ethanol	Etanolo	M	M	M	O (b8)	M	M	O	M	O		
Ethanolamine	Etanolamina					nd	nd		M	O		
Ethers	Etere	X	X	X	O (b8)			O	O	O	X	X
Ethyl Acetate	Acetato di etile	X	X	X	O (b8)	M	O		M	O		
Ethyl Alcohol	Alcool etilico	M	M	M	O (b8)	O	O		M	O		
Ethyl alcohol	Alcol Etilico	O	O	O	O				M	O		
Ethyl Cellulose	Etilcellulosa	M	M	M	O (b8)				X	M		
Ethyl Chloride	Cloruro di etile	X	X	X	X				M	M		
Ethylene Dichloride	Cloruro di Etilene	X	X	X	O (b8)	X	nd		X	X		
Ethylene Glycol	Glicole Etilenico	O	M	O	O	O	O	O	O	O	O	O
Ethylene glycole (100°C)	Glicole Etilenico (100°C)	M	O	O	M	nd	nd	O	O	O	O	O
Ethylene Oxide	Ossido di Etilene					O	O	nd	O	O		
Exxon 3110 FR	Exxon 3110 FR	O	O	O	O (b8)			O	O	O	O	O
Exxon Esstic	Exxon Esstic	O	O	O	O	O	O	O	O	O	O	O
exxon HUmbLe H 46	exxon HUmbLe H 46	O	M	M	O	O	O	O	O	O	O	O
exxon mobil 424	exxon mobil 424	M	M	M	M				O	O		
Exxon Nuto H 46, 68	Exxon Nuto H 46, 68	O	O	O	O	O	O	O	O	O	O	O
Exxon Tellura Industrial Process Oils	Exxon Tellura - olii industriali di processo	O	O	O	O	O	O	O	O	O	O	O
Exxon Terresstic, EP	Exxon Terresstic, EP	O	O	O	O	O	O	O	O	O	O	O
Exxon Turbo Oil 2380 Exxon Univolt 60, N61	Exxon Turbo Oil 2380	M	X	M	O (b8)			O	O	O	O	O
F	F											
FE 232 (Halon)	FE 232 (Halon)	X	X	X	X				O	O		
Fenso 150	Fenso 150	O		O	nd				O	O		
Ferric Chloride	Cloruro Ferrico					nd	X					
FIAT oil Tutela LHM	FIAT oil Tutela LHM					O	nd	O	O	O	O	O
Fluorine	Fluoro					X	nd					
Formaldehyde, 40%	Aldeide Formica, 40% Formaldeide	X	X	X	O (b8)	M	M	O	X	O		
Formic Acid	Acido formico					M	X	O			X	X
Fuchs eco Hyd 46 S nWG	Fuchs eco Hyd 46 S nWG	M	M	M	M			O	O	O	O	O
Fuchs planto Hytrac	Fuchs planto Hytrac	M	M	M	M			O	O	O	O	O
Fuchs plantohyd 46s	Fuchs plantohyd 46s	M	O	O	M			O	O	O	O	O
Fuchs plantohyd n 46	Fuchs plantohyd n 46	O	O	O	O			O	O	O	O	O
Fuchs plantoHyD SUpër S46	Fuchs plantoHyD SUpër S46	X	M	M	X			O	O	O	O	O
Fuchs plantosyn 3268 eco	Fuchs plantosyn 3268 eco	M	O	M	O	M	O	O	O	O	M	O

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# OLEOMARKET

## Chemical Compatibility Chart

**MARKHIP®**

Hose Hi-Tect™



FLUID	FLUIDO	Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HN-BR -20°C a +100°C)	Seal Viton (FKM-FPM -10°C a +200°C)
		CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
<b>J</b>	<b>J</b>											
J.Deere Biohygard ii	J.Deere Biohygard ii	M	O	O	O	nd	nd	O	O	O	O	O
Jayflex DIDP	Jayflex DIDP	X	X	X	X				O	O		
JP3 and JP4	JP3 e JP4	O	X	O	nd				O	O		
JP5	JP5	(b3)	X	(b3)	(b8 (i22)				O	O		
JP9	JP9	X	X	X	X				O	O		
<b>K</b>	<b>K</b>											
Kaesar 150P, 175P, 325R, 687R	Kaesar 150P, 175P, 325R, 687R	X	X	X	O (b8)				O	O		
Kerosene	Cherosene	O	X	O	M	O	O	O	O	O	O	O
KIUBer HySyn fG46	KIUBer HySyn fG46	M	X	X	M	M	O	O	O	O	M	O
KIUBer Summit HySyn fG 22	KIUBer Summit HySyn fG 22	M	M	M	M	M	O	O	O	O	M	O
KIUBer Summit HySyn fG 46	KIUBer Summit HySyn fG 46	M	M	M	M	M	O	O	O	O	M	O
Komatsu Genuine Bio 46 G4	Komatsu Genuine Bio 46 G4	M	O	O	O	nd	nd	O	O	O	O	O
KSL-214, 219, 220, 222	KSL-214, 219, 220, 222	X	X	X	O (b8)				O	O		
<b>L</b>	<b>L</b>											
Lacquer	Lacca	X	X	X	O (b8)				X	O		
Lacquer Solvents	Solventi di lacca	X	X	X	O (b8)	M	O	O	X	O		
Lactic Acids, 10%	Acido Lattico, 10%	X	X	X	X	X	O	O	X	O		
Lindol HF	Lindol HF (fluido idraulico /esteri di fosfato)	X	X	X	O (b8)	M	O	O	O	O		
Linseed Oil	Olio di lino	O	M	O	O (b8)	O	O	O	O	O		
LP-Gas	LP-Gas			See (b7)		nd	nd	nd	O	O		
<b>M</b>	<b>M</b>											
Magnesium Chloride	Cloruro di magnesio	O	O	O	O (b8)				X	X		
Magnesium Hydroxide (aqueous solutions)	Idrossido di magnesio (soluzione acquosa)	M	M	M	O (b8)	M	O	O	M	M		
Magnesium Sulfate	Solfato di magnesio	O	O	O	O (b8)				O	O		
Mav Sint plus 2005 iSo46	Mav Sint plus 2005 iSo46	X	X	X	X				O	O		
Mercaptans	Mercaptani	X	X	X	X							
Mercury	Mercurio					O	O	O				
Methane	Metano			See (b7)		see (b1 (b2)	see (b1 (b2)	O	O	O	O	O
Methanol	Metanolo	O	O	M	O (b8)	O	O	O	M	O		
Methyl Alcohol	Alcool metilico	O	O	M	O (b8)	O	O	O	M	O		
Methyl Chloride	Cloruro di metile	X	X	X	O (b8)	X	X		O	O		
Methyl Ethyl Ketone (MEK)	Metiletilchetone (MEK)	X	X	X	O (b8)	M	O	O	M	O	X	X
Methyl Methacrylate	Metil Metacrilato	X	X	X	X				M	O		
Methylene Chloride	Cloruro di Metilene					X	M	O	M	O		
Metsafe FR303, FR310, FR315, FR330, FR350	Metsafe FR303, FR310, FR315, FR330, FR350	X	X	X	X				O	O		
Microzol-T46	Microzol-T46	O	X	O	nd				O	O		
MIL-B-46176A	MIL-B-46176A	X	X	X	X				X	X		
MIL-H-46170	MIL-H-46170	M	X	M	O (b8)				O	O		
MIL-H-544	MIL-H-544	O		O	nd				O	O		
MIL-H-5606	MIL-H-5606	O	M	O	O				O	O		
MIL-H-6083	MIL-H-6083	O	M	O	O (b8)				O	O		
MIL-H-7083	MIL-H-7083	O	M	O	O (b8)				O	O		
MIL-H-83282	MIL-H-83282	O	M	O	O (b8)				O	O		
MIL-L-2104, 2104B	MIL-L-2104, 2104B	O	M	O	O				O	O		
MIL-L-23699	MIL-L-23699	X	X	X	X				O	O		
MIL-L-7808	MIL-L-7808	O	M	O	nd				O	O		
MillerS millfood 32	MillerS millfood 32	O	M	M	O				O	O		
Mine Guard FR	Mine Guard FR	O	O	O	nd				O	O		
Mineral Oil	Olio minerale	O	O	O	M	O	O	O	O	O	O	O
Mineral Spirits	Acqua ragia minerale	see (b6)	X	see (b6)	see (b6)	X	X	M	O	O		
Mineral Spirits Unocal 66/3	Acqua ragia minerale Unocal 66/3								O	O		
Mobil Aero HF mil H5606	Mobil Aero HF mil H5606	O	M	O	nd			O	O	O	O	O
Mobil Aero HFE	Mobil Aero HFE	O	M	O	M				O	O	O	O
Mobil arctic eal 22	Mobil arctic eal 22	M	M	M	M				O	O	O	O
Mobil ATF 220	Mobil ATF 220	O	O	O	nd				O	O	O	O
Mobil Dte 10 eXcel	Mobil Dte 10 eXcel	M	X	X	M				O	O	O	O
Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	O	M	O	O				O	O	O	O
Mobil Dte 13	Mobil Dte 13	O	M	M	O				O	O	O	O
Mobil DTE 22, 24, 25, 26	Mobil DTE 22, 24, 25, 26	O	M	O	O				O	O	O	O
Mobil Dte 25	Mobil Dte 25	O	M	M	O				O	O	O	O
Mobil Dte 26	Mobil Dte 26	O	M	M	O				O	O	O	O
Mobil Dte eXcel 46	Mobil Dte eXcel 46	O	M	M	O				O	O	O	O
Mobil EAL 224H	Mobil EAL 224H	O	X	O	X				O	O		
Mobil EAL Artic 10, 15, 22,32, 46, 68, 100	Mobil EAL Artic 10, 15, 22,32, 46, 68, 100	X	X	X	X				O	O		
Mobil Glygoyle 11, 22, 30, 80	Mobil Glygoyle 11, 22, 30, 80	M	X	M	nd				O	O	O	O
Mobil HFA	Mobil HFA	O	M	O	O (b8)				O	O	O	O
Mobil Hydrofluid HFDU	Mobil Hydrofluid HFDU	M	O	O	M				O	O	O	O

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# CCC OLEOMARKET

## Chemical Compatibility Chart

MARKHIP®

Hose Hi-Tech™

FLUID	FLUIDO
Mobil Jet 2	Mobil Jet 2
Mobil Jet oil ii	Mobil Jet oil ii
Mobil Nyvac 20, 30, 200, FR	Mobil Nyvac 20, 30, 200, FR
Mobil Rarus 824, 826, 827	Mobil Rarus 824, 826, 827
Mobil SHC 524	Mobil SHC 524
Mobil SHC 600 Series	Mobil SHC 600 (serie)
Mobil SHC 800 Series	Mobil SHC 800 (serie)
Mobil therm 605	Mobil therm 605
Mobil Vactra Oil	Mobil Vactra Oil
Mobil XRL 1618B	Mobil XRL 1618B
Mobilrama 525	Mobilrama 525
Mobilfluid 423	Mobilfluid 423
Mobilgear SHC 150, 220, 320, 460, 680	Mobilgear SHC 150, 220, 320, 460, 680
Molub-Alloy 890	Molub-Alloy 890
Moly Lube "HF" 902	Moly Lube „HF“ 902
Monolec 6120 Hydraulic Oil	Olio idraulico Monolec 6120
Morpholine (pure additive)	Morpholine (additivo puro)
Motorex Corex HLP 46	Motorex Corex HLP 46
N	N
Naptha	Petrolio grezzo
Napthalene	Naftalene
Natural Gas	Gas naturale
Neste Bio Hydraulici IonGlife 46	Neste Bio Hydraulici IonGlife 46
Neste Biohydraulici Se 46	Neste Biohydraulici Se 46
Neste HyDraUli 32 SUpser	Neste HyDraUli 32 SUpser
Neste HyDraUli 46 SUpser	Neste HyDraUli 46 SUpser
Nitric Acid, 10%	Acido nitrico, 10%
Nitric Acid, 30%	Acido nitrico, 30%
Nitrobenzene	Nitrobenzene
Nitrogen, gas	Azoto gas
Nitromethane	Nitrometano
NORPAR 12, 13, 15	NORPAR 12, 13, 15
Nuto H 46, 68	Nuto H 46, 68
Nyvac 20, 30, 200, FR	Nyvac 20, 30, 200, FR
Nyvac Light	Nyvac leggero
O	O
Oceanic HW	Oceanic HW
Oleic Acid	Acido Oleico
Omv Hlp al 46	Omv Hlp al 46
Oxygen, gas	Ossigeno
Ozone	Ozono
P	P
Pacer SLC 150, 300, 500, 700	Pacer SLC 150, 300, 500, 700
Palamitic Acid	acido Plamitico
Panolin 9632	Panolin 9632
Panolin ep Gear Synth 30 VDt	Panolin ep Gear Synth 30 Vdt
Panolin HLP 46	Panolin HLP 46
Panolin HLP SYNTH	Panolin HLP SYNTH
Panolin TURWANDA SYNTH 46	Panolin TURWANDA SYNTH 46
Paraffin	Paraffina
Pennzbell AWX	Pennzbell AWX
Pentane	Pentano
Pentosin CHF 11S (atf fluid)	Pentosin CHF 11S (atf fluid)
Pentosin Super DOT 4	Pentosin Super DOT 4
Perchloric Acid, 10%	Acido Perclorico, 10%
Perchloroethylene	Percloroetilene
Petroleum Ether	Etere di petrolio
Petroleum Oils	Olio di petrolio
Phenol (Carbolic Acid)	Fenolo (acido carbolico)
Phosphate Ester Blends	Estere fosforico miscelato
Phosphate Esters	Esteri fosforici
Phosphoric Acid 10 %	Acido fosforico , 10%
Phosphoric Acid 20 %	Acido fosforico , 20%
Plantosin HVI 46	Plantosin HVI 46
Plexus 46	Plexus 46
Polyalkylene Glycol	Polyalkylene glicole
Polyol Ester	Estere di poliolo
Polypropilene glycol	Polipropilene glicole
Potassium Bicarbonate, 20%	Bicarbonato di Potassio
Potassium Bromide	Potassio di Bromuro
Potassium Carbonate, 20%	Carbonato di Potassio, 20%
Potassium Chloride (aqueous solution)	Cloruro di potassio (soluzione acquosa)
Potassium Hydroxide, 10%	Idrossido di potassio, 10%
Potassium Permanganate, 5%	Permanganato di Potassio, 5%

Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HNBR -20°C a +100°C)	Seal Viton (FKM-PPM -10°C a +200°C)
CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
M	X	M	O (b8)			O	O	O	O	O
X	M	M	X				O	O		
O	O	O	O			O	O	O	O	O
X	X	X	O (b8)				O	O		
O	M	O	nd			O			O	O
O	M	O	O (b8)			O	O	O	O	O
O	M	O	O (b8)			O	O	O	O	O
O	M	M	O			O	O	O	O	O
O	O	O	M			O	O	O	O	O
X	X	X	X				O	O		
O	O	O	M			O	O	O	O	O
O	M	O	O			O	O	O	O	O
M	M	M	O (b8)				O	O		
X	X	X	O (b8)				O	O		
M	M	M	M				O	O		
O	O	O	O	O	O	O	O	O	O	O
X	X	X	X				X	O		
O	O	O	nd				O	O		
O	M	M	O (b8)	M	O	O	O	O	O	O
X	X	X	O (b8)	M	M		O	O		
		See (b7)	See (b7)	See (b7)		O	O	O	O	O
X	M	M	X	nd	nd	nd	O	O		
O	M	O	nd	nd	nd	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O
O	X	X	O	O	O	O	O	O	O	O
X	X	X	X	M	X	O	X	M	X	O
X	X		O (b8)	X	X	O	X	O		O
M	M	M	M	O	O	O	O	O	O	O
(b1)	(b1)	(b1)	(b8 (b1)	(b1)	(b1)	O	O	O	O	O
see (b6)	see (b6)	see (b6)	see (b6)	nd	O		O	O		
O	O	O	O				O	O		
O	M	O	O				O	O		
X	X	X	nd				O	O		
O	M	O	O				O	O		
O	M	O	O				O	O		
O	M	X	M	O	O	O			O	O
O	M	M	O			O			O	O
X	O	X	X			O	X	O	O	O
M	M	X	M	O	O	O	O	O	X	O
X	X	X	O (b8)				O	O		
				O	O		O	O		
X	X	X	X				O	O		
X	X	X	X	nd	nd	nd	O	O		
X	M	X	X	nd	X	O	X	M	X	O
X	M	M	X	nd	X	O	X	M	X	O
O	O	O	nd				O	O		
O	M	O	nd				O	O		
M	O	M	nd			O	O	O		
O	X	M	nd			O	O	O		
M	M	M	M	nd	nd	O	O	O		
O	O	O	O	nd	O		O	O		
O	O	O	O	nd	O		O	O		
O	O	O	O	nd	O		X	M		
X	X	X	O (b8)	X	X	O	see (b5)	O		
			O (b8)	X	X					
				X	X					

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MARKHIP®

Hose Hi-Tect™



FLUID	FLUIDO	Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HNBR -20°C a +100°C)	Seal Viton (FKM-FPM -10°C a +200°C)
		CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
Potassium Sulfate	Solfato di potassio	O	O	O	O (b8)				O	O		
Potassium Thiocyanate	Tiocianato di Potassio					nd	X					
Propane	Gas propano liquido (GPL)			See (b7)				O	O	O	O	O
Propylene Glycol	Propilenglicole	O	O	O	O (b8)	nd	nd	O	M	M		
Pydraul 10-E, 29-E, 50-E, 65-E, 90-E, 115-E	Pydraul 10-E, 29-E, 50-E, 65-E, 90-E, 115-E	X	X	X	X				O	O		
Pydraul 230-C, 312-C, 68-S	Pydraul 230-C, 312-C, 68-S	X	X	X	X				O	O		
Pydraul 60, 150, 625, F9	Pydraul 60, 150, 625, F9	X	X	X	X	M (b8)	M (b8)	O (b8)	O	O		
Pydraul 90, 135, 230, 312, 540, MC	Pydraul 90, 135, 230, 312, 540, MC	X	X	X	X	X	M (b8)	O (b8)	O	O		
Pydraul A-200	Pydraul A-200	X	X	X	O (b8)				O	O		
Pyro Gard 43, 230, 630	Pyro Gard 43, 230, 630	X	X	X	X				O	O		
Pyro Gard C, D, R, 40S, 40W	Pyro Gard C, D, R, 40S, 40W	O	M	O	M (b8)				O	O		
Pyro Guard 53, 55, 51, 42	Pyro Guard 53, 55, 51, 42	X	X	X	X				O	O		
Q	Q											
Q8 Handel 68	Q8 Handel 68	O	X	X	O	O	O	O	O	O	O	O
Q8 Heller 46	Q8 Heller 46	O	M	M	O	O	O	O	O	O	O	O
Q8 Hogart 46	Q8 Hogart 46	M	X	X	M	O	O	O	O	O	O	O
Q8 Holbein	Q8 Holbein	M	M	M	M			O	O	O	O	O
Q8 Holbein Bio Plus	Q8 Holbein Bio Plus	M	M	O	nd	nd	nd	O	O	O	O	O
Q8 t720 15W-40	Q8 t720 15W-40	O	M	M	O			O	O	O	O	O
Quaker Greensave n 40	Quaker Greensave n 40	X	M	M	X				O	O	O	O
Quintolubric 700	Quintolubric 700	O	O	O	O (b8)			O	O	O	O	O
Quintolubric 807-SN	Quintolubric 807-SN	O	M	O	nd			O	O	O	O	O
Quintolubric 822, 855	Quintolubric 822, 833	O (b5)	X	M (b5)	X	nd	O	O	O	O	O	O
Quintolubric 888	Quintolubric 888	O (b5)	M	O (b5)	X			O	O	O	O	O
R	R											
Rautio ergo miX	Rautio ergo miX	O	X	X	O				O	O	O	O
Rando	Rando	O	O	O	O			O	O	O	O	O
Rando HD 46	Rando HD 46	O		O	nd			O	O	O	O	O
Rayco 782	Rayco 782	O	X	M	X			O	X	X	O	O
Renault ST 46M	Renault ST 46M	O	O	O	nd			O	O	O	O	O
Renolin Lift	Renolin Lift	O		O	nd				O	O		
Renolin HVI 46	Renolin HVI 46	O		O	nd				O	O		
Refrigerant 124	Refrigerante 124			See (b4)					O	O		
Refrigerant Freon 113	Refrigerante Freon 113	X	X	X	X	O	nd		O	O		
Refrigerant Freon 114	Refrigerante Freon 114					O	nd		O	O		
Refrigerant Freon 11	Refrigerante Freon 11					O	O		O	O		
Refrigerant Freon 12	Refrigerante Freon 12			See (b4)		O	O	O	O	O	O	O
Refrigerant Freon 22	Refrigerante Freon 22			See (b4)		O	O	O	O	O	O	X
Refrigerant Freon R 407C	Refrigerante Freon R 407C			See (b4)		O	O		O	O		
Refrigerant Freon 502	Refrigerante Freon 502			See (b4)		O	O		O	O		
Refrigerant HFC134A	Refrigerante HFC134A			See (b4)		O	O		O	O		
Reolube Turbofluid 46	Reolube Turbofluid 46	X	X	X	X				O	O		
Rivolta B.H.23	Rivolta B.H.23	O	M	O	nd				O	O		
Rotella	Rotella	O	O	O	O				O	O		
Royal Bio Guard 3032, 3046, 3068, 3100	Royal Bio Guard 3032, 3046, 3068, 3100	M	X	nd	X	nd	nd		O	O		
Royco 2200, 2210, 2222, 2232, 2246, 2268	Royco 2200, 2210, 2222, 2232, 2246, 2268	X	X	X	X			O	O	O	O	O
Royco 4032, 4068, 4100, 4150	Royco 4032, 4068, 4100, 4150	X	X	X	O (b8)			O	O	O	O	O
Royco 756, 783	Royco 756, 783	O	O	O	O			O	O	O	O	O
Royco 770	Royco 770	M	X	M	M (b8)			O	O	O	O	O
RTV Silicone Adhesive Sealants	RTV Collanti adesivi silicnici	X	X	X	X	M	O	O	O	O		
S	S											
Safco-Safe T10, T20	Safco-Safe T10, T20			nd	nd				M	O		
Safety-Kleen ISO 32, 46, 68 hydraulic oil	Safety-Kleen ISO 32, 46, 68 olio idraulico	O	M	O	nd	O	O	O	O	O	O	O
Safety-Kleen Solvent	Safety-Kleen solvente	see (b6)	see (b6)	see (b6)	see (b6)				O	O		
Santoflex 13	Santoflex 13	M	M	M	nd			O	O	O	O	O
Santosafe 300	Santosafe 300	X	X	X	nd				O	O		
Santosafe W/G 15 to 30	Santosafe W/G 15 to 30			nd	O (b8)				O	O		
Sewage	Liquame	M	M	M	O (b8)				X	O		
Shaffer 112 HtC	Shaffer 112 HtC	O	M	M	O			O	O	O	O	O
Shaffer 2755 Dilex Supreme mehF HyD	Shaffer 2755 Dilex Supreme mehF HyD	O	X	X	O				O	O		
Shell Hf-e-46	Shell Hf-e-46	O	O	O	O			O	O	O	O	O
Shell 140 Solvent	Shell 140 solvente	see (b6)	see (b6)	see (b6)	see (b6)				O	O		
Shell arctic 32	Shell arctic 32	M	O	O	M			O	O	O	O	O
Shell atf iii	Shell atf iii	O	M	M	O			O	O	O	O	O
Shell Brake fluid DOT4	Shell Brake fluid DOT4					O	O		O	O		
Shell Cassida Hf 46	Shell Cassida Hf 46	O	M	M	O			O	O	O	O	O
Shell Clavus HFC 68	Shell Clavus HFC 68	X	X	X	X			O	O	O	O	O
Shell Compotella Oil	Shell Compotella olio	M	M	M	O			O	O	O	O	O
Shell Compotella Oil S 46, 68	Shell Compotella olio S 46, 68	M	M	M	O			O	O	O	O	O
Shell Compotella Oil SM	Shell Compotella olio SM	M	M	M	O			O	O	O	O	O

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# CCC OLEOMARKET

## Chemical Compatibility Chart

**MARKHIP®**  
Hose Hi-Tech™

FLUID	FLUIDO	Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HN-BR -20°C a +100°C)	Seal Viton (FKM-PPM -10°C a +200°C)
		CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
Shell Corena D	Shell Corena D	O	M	M	O			O	O	O	O	O
Shell Diala A, (R) Oil AX	Shell Diala A, (R) Oil AX	O	M	O	M			O	O	O	O	O
Shell Donax tD	Shell Donax tD	O	M	M	O			O	O	O	O	O
Shell FRM	Shell FRM			nd	nd			O	O	O	O	O
Shell Helix Ultra 5W40	Shell Helix Ultra 5W40	O	M	M	O			O	O	O	O	O
Shell IRUS 902, 905	Shell IRUS 902, 905 (fluido idraulico -emulsione acqua olio)	O	O	O	nd	O	O	O	O	O	O	O
Shell IRUS Fluid DU 46	Shell IRUS Fluid DU 46	O	M	O	nd			O	O	O	O	O
Shell irus fluid DU-na 68	Shell irus fluid DU-na 68	M	M	M	M			O	O	O	O	O
Shell Naturelle HF-E	Shell Naturelle HF-E	O	M	O	M			O	O	O	O	O
Shell Pella-A	Shell Pella-A	O	O	O	O (b8)			O	O	O	O	O
Shell rimula r3	Shell rimula r3	O	M	M	O			O	O	O	O	O
Shell rimula X30	Shell rimula X30	O	M	M	O			O	O	O	O	O
Shell tegula V32	Shell tegula V32	O	M	M	O			O	O	O	O	O
Shell Tellus	Shell Tellus	O	M	O	O			O	O	O	O	O
Shell tellus 100	Shell tellus 100	O	M	M	O			O	O	O	O	O
Shell tellus 42	Shell tellus 42	O	M	M	O			O	O	O	O	O
Shell tellus 68	Shell tellus 68	O	M	M	O			O	O	O	O	O
Shell tellus ee	Shell tellus ee	M	X	X	M			O	O	O	O	O
Shell tellus S 46	Shell tellus S 46	O	M	M	O			O	O	O	O	O
Shell tellus t 32	Shell tellus t 32	O	M	M	O			O	O	O	O	O
Shell tellus t 46	Shell tellus t 46	O	M	M	O			O	O	O	O	O
Shell tellus t 68	Shell tellus t 68	O	M	M	O			O	O	O	O	O
Shell Tellus TD 46	Shell Tellus TD 46	O	O	O	O			O	O	O	O	O
Shell tellus tX 68	Shell tellus tX 68	M	M	M	M			O	O	O	O	O
Shell Thermia Oil C	Shell Thermia Oil C	O	O	O	O			O	O	O	O	O
Shell Turbo R	Shell Turbo R	M	X	M	O (b8)			O	O	O	O	O
Shell V oil 1404	Shell V oil 1404	M	M	M	M			O	O	O	O	O
SHF 220, 300, 450	SHF 220, 300, 450	O	X	X	X			O	O	O	O	O
Silicate Esters	Esteri silicati	M	O	M	O (b8)			O	O			
Silicone Oils	Oli siliconici	O	O	O	nd	O	O	O	O	O		
Silicone Sealants	Sigillanti al silicone	X	X	X	X	O	O	O	O	O		
Skydrol 500B-4, LD-4	Skydrol 500B-4, LD-4	X	X	X	X	M	O	O	O	O		
Soap Solutions	Soluzioni di Sapone	M	O	M	M (b8)	O	O	O	O	O	O	O
Sodium Carbonate	Carbonato di Sodio	O	O	O	O (b8)	nd	M	nd	O	O		
Sodium Acetate, 60%	Acetato di Sodio, 60%					nd	O		O	O		
Sodium Bisulfate	Biossido di zolfo	X	M	X	O (b8)	X	X	O	M	M		
Sodium Chloride, 10%	Cloruro di sodio, 10%	M	O	M	O (b8)	nd	O	O	X	O		
Sodium Hydroxide, 10%	Idrossido di sodio, 10%	X	O	X	O (b8)	O	O	O	O	O	O	X
Sodium Hydroxide, 20%	Idrossido di sodio, 20%	X	M	X	X	M	M	O			O	X
Sodium Hydroxide, 50%	Idrossido di sodio, 50%	X	M	X	X	M	X	O			O	X
Sodium Hypochlorite, 5%	Ipclorito di sodio, 5%	X	O	X	X	M	X	O	X	X	X	O
Sodium Nitrate, 5%	Nitrato di sodio, 5%	M	O	M	O (b8)	nd	O		O	O		
Sodium Silicate (aqueous solutions)	Silicato di sodio (soluzione acquosa)	O	O	O	O (b8)				O	O		
Sodium Sulfate, 90%	Solfato di sodio, 90%	O	O	O	O (b8)	nd	O		O	O		
Solutia Skydroll 500	Solutia Skydroll 500	X	X	X	X							
Soybean Oil	Soybean olio	O	M	O	O (b8)			O	O	O	O	O
SSR Coolant	SSR Coolant	X	X	X	O (b8)				O	O		
Steam (100°C)	Vapore (100°C)	X	X	X	X	X	X	O	M	O	X	X
Stearic acid	Stearic acid	O	O	O	O							
Stoddard Solvent	Solvente Stoddard	see (b6)	see (b6)	see (b6)	see (b6)	X	M (b6)	O	O	O		
Sulfur Chloride	Cloruro di zolfo	X	X	X	M				X	X		
Sulfur Dioxide	Acetato di cellosolve	X	X	X	X				X	M		
Sulfur Trioxide	Triossido di zolfo	X	X	X	M				X	X		
Sulfuric Acid (0% to 30% room temperature)	Acido solforico (temperatura ambiente da 0% a 30%)	M (b5)	M (b5)	M (b5)	X	nd	nd	O	see (b5)	see (b5)	X	O
Sulfuric Acid (30% to 50% room temperature)	Acido solforico (temperatura ambiente da 30% a 50%)	M (b5)	M (b5)	M (b5)	X	M	X	O	see (b5)	see (b5)	X	O
Sulfuric Acid (> 50% room temperature)	Acido solforico (temperatura ambiente > 50%)	X	X	X	X	X	X	O	see (b5)	see (b5)	X	O
Sulfurus acid, 10%	Acido Solforoso, 10%	X	X	X	X	nd	X		see (b5)	see (b5)		
Summa-20, Rotor, Recip	Summa-20, Rotor, Recip	X	X	X	X				O	O		
Summit DSL-32,68,100,125	Summit DSL-32,68,100,125	X	X	X	X				O	O		
Sun Minesafe, Sun Safe	Sun Minesafe, Sun Safe	M	X	M	M				O	O		
Sundex 8125	Sundex 8125	M	X	M	nd				O	O		
Suniso 3GS	Suniso 3GS	O	O	O	O				O	O		
Sun-Vis 722	Sun-Vis 722	M	X	M	nd				O	O		
Super Hydraulic Oil 100, 150, 220	Super Hydraulic Oil 100, 150, 220	O	O	O	O	O	O	O	O	O	O	O
SUVA MP 39, 52, 66	SUVA MP 39, 52, 66	X	X	X	X				O	O		
SYNCON Oil	SYNCON Oil	X	X	X	X	M	O		O	O		
Syndale 2820	Syndale 2820	M	X	M	nd				O	O		
Synsestic 32,68,100	Synsestic 32,68,100	X	X	X	X				O	O		
Syn-Flo 70,90	Syn-Flo 70,90	X	X	X	X				O	O		
SYN-O-AD 8478	SYN-O-AD 8478	X	X	X	X				O	O		
T	T											
Tamoil atf ii D	Tamoil atf ii D	M	M	M	M				O	O		

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# OLEOMARKET

## Chemical Compatibility Chart



### FLUID

Tannic Acid, 10%
Tannin
Tartaric Acid, 20%
TeBoil eco 46
TeBoil Hydraulic arctic
Tetraethyl lead
Tetrafluoro Propane
Tetrahydrofuran
Texaco 760 Hydrafluid
Texaco 766, 763 (200 - 300)
Texaco A-Z Oil
Texaco Biostar Hydraulic 32
Texaco rando HD 46
Texaco Spindura Oil 22
Texaco Way Lubricant 68
Thanol-R-650-X
Thermanol 60
Toluene, Toluol
Total Biohydran Se 46
Total DaCnis SH 46
Total Dacnis VS 45
Transmission Oil
Tribol 1440
Trichloroethylene
Triethanolamine
Trim-Sol
Trisodium Phosphate
Turbinol 50, 1122, 1223
Turpentine
U
Ucon Hydrolubes
UltraChem 215,230,501,751
Unil Hydro S46
Unil opal HV 46
Unil opal HVB 46
Univis J26
Unleaded Gasoline
Unocal 66/3 Mineral Spirits
Urea
Urethane Formulations
V
Valvoline ulramax HVlp 68
Van Straaten 902
Varnish
Varsol
Versilube F44, F55
Vinegar
Vinyl acetate
Vinyl chloride
Vital 29, 4300, 5230, 5310
W
Water
Water / Deionized
Water / Glycols (emulsion 50%)
Water, Sea
X
Xylene, Xylol
Z
Zerol 150
Zinc Chloride, 10%
Zinc Sulfate (aqueous solutions)

### FLUIDO

Acido tannico, 10%
Tannino
Acido Tartarico, 20%
TeBoil eco 46
TeBoil Hydraulic arctic
Piombo Tetraetile
Tetrafluoropropano
Tetraidrofurano
Texaco 760 Hydrafluid
Texaco 766, 763 (200 - 300)
Texaco A-Z Oil
Texaco Biostar Hydraulic 32
Texaco rando HD 46
Texaco Spindura Oil 22
Texaco Way lubrificante 68
Thanol-R-650-X
Thermanol 60
Toluolo
Total Biohydran Se 46
Total DaCnis SH 46
Total Dacnis VS 45
Olio da trasmissione
Tribol 1440
Tricloroetilene ,trielina
Trietanolammia
Trim-Sol
Fosfato Trisodico
Turbinol 50, 1122, 1223
Trementina
U
Ucon Hydrolubes (fluido idraulico base acqua glicole)
UltraChem 215,230,501,751
Unil Hydro S46
Unil opal HV 46
Unil opal HVB 46
Univis J26
Benzina senza piombo
Unocal 66/3 Mineral Spirits
Urea
Formulazioni in Uretano
V
Valvoline ulramax HVlp 68
Van Straaten 902
Vernice
Varsol
Versilube F44, F55
Aceto
Acetato di Vinile
Cloruro di Vinile
Vital 29, 4300, 5230, 5310
W
Acqua
Acqua deionizzata
Acqua / glicole (emulsione 50%)
Acqua marina
X
Xilene, Xilolo
Z
Zerol 150
Cloruro di zinco, 10%
Solfato di zinco (soluzione acquosa)

Braided Rubber Hoses	Spiral Rubber Hoses	Cleaners Rubber Hoses	Braided Rubber Hoses H.Temp.	Thermo-plastic Polyester Hoses	Therm. Polyamide Hoses	PTFE hose	Crimped Fitting Carbon Steel	Crimped Fitting Stainless Steel 316	Seal (NBR-HNBR -20°C a +100°C)	Seal Viton (FKM-FPM -10°C a +200°C)
CCC1	CCC2	CCC3	CCC4	CCC5	CCC6	CCC7	CCC8 (b9)	CCC9 (b9)	CCC10 (b9)	CCC11 (b9)
O	X	O	M	O	nd		X	X		
O	O	O	O				X	X		
M	O	O	M							
X	M	M	X							
M	O	O	O	O	O	O			O	O
X	M	M	X							
				nd	X					
				M	nd					
		nd	nd			O	O	O	O	O
O	O	O	M			O	M	O	O	O
M	O	O	M	nd	nd	O	O	O	O	O
O	M	M	O			O	O	O	O	O
M	M	M	M			O	O	O	O	O
O	O	O	O			O	O	O	O	O
M	X	M	nd			O	O	O	O	O
X	X	X	X			O	O	O	O	O
X	X	X	X	M	O	O	O	O	O	O
X	M	M	X	nd	nd		O	O		
M	M	M	M			O	O	O	X	O
O	X	X	O			O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O
X	X	X	X			O	O	O		
X	X	X	M	X	M	O	X	O	X	O
O	M	O	M			O	O	O		
X	X	X	X			O	O	O		
X	X	X	M	O	O	O	O	O	O	O
O						O	O	O		
X	X	X	O			O	O	O		
O	M	M	O			O	O	O	O	O
O	M	M	O			O	O	O	O	O
O	M	M	O			O	O	O	O	O
O	O	O	O			O	O	O	O	O
				See (b1)	O	O	O	O		
see (b6)	see (b6)	see (b6)	see (b6)				O	O		
M	M	M	O				M	M		
O	O	O	O				O	O		
O	X	X	O				O	O		
O	O	O	O				O	O		
O	O	O	O				O	O		
X	X	X	M	O	O	O	M	O		
M	see (b6)	M	see (b6)				O	O		
O		O	O			O	O	O	O	O
X	X	X	O			M	O	O	X	X
O	O	O	O							
X	X	X	X							
X	X	X	X				O	O		
O	O	O	O							
O	O	O	O							
O	O	O	X	O	X	O	X	M		
O	O	O	X				X	O		

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