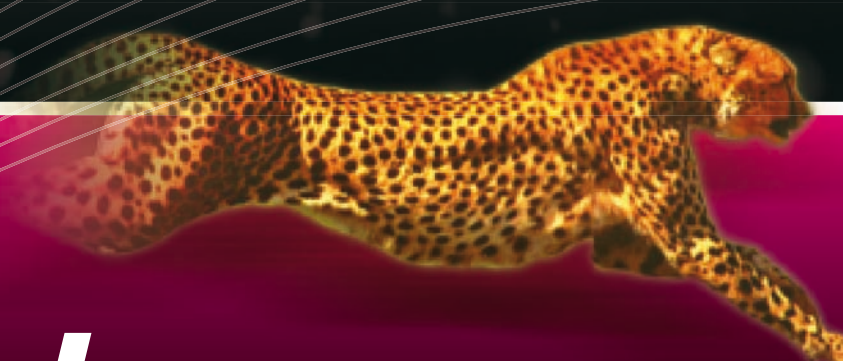


METALWORKING FLUIDS

FLUIDOS DE CORTE
FLUIDES DE COUPE



elesa
ELECTROFILM ESPAÑOLA, S.A.

DQI-1	Biodegradable water based degreaser. Cleans metal surfaces, equipment and tanks. Provides temporary protection of surfaces against corrosion.
DQI-9	Quick drying pH neutral protective liquid varnish coating for machined worked pieces. Hermetically seals all types of material. Forms a hard protective shrink-wrap type PVC coating, easily peeled off when coating is no longer required.
EM 21	Extreme pressure gear oil. Formulated to support heavy stress loads and strong shocks in gear drives such as cylindrical, conic, helical, worm, etc. Contains antioxidant, anticorrosion and antifoam additives for extra protection. Suitable for bronze mechanisms. <i>US Steel 224; AGMA 9005.E02 (EP) ; DIN 51.517 PART. 3 (CLP-46 to 680); DAVID BROWN S1.53.101 (E); Viscosity in accordance with ISO 3448 & DIN 51519; Classification ISO L-CKC (46 – 680); CINCINNATI MILACRON P47 & P50.</i>
HM *	Ultra-refined mineral based oils with high concentrations of antioxidant, anti-wear, antirust and antifoam additives for extra protection. <i>AFNOR NFE 48603-HM; DIN 51524 parts 2 & 3 (HLP); CINCINNATI MILACRON P-68, 69, 70 ; DENISON HF-2 & HF-0 ; VICKERS M-2952-S (including : M-2950-S mobile hydraulic systems & I-286-S industrial hydraulic systems).</i>
HV & HR *	Developed for hydraulic systems and circuits with hydrostatic systems. Strong anti-wear protection. Low pour point for operating in winter. <i>AFNOR NFE 48603-HM & HR; ISO 11158 HM & HR; DIN 51524 parts 1, 2 & 3 (HLP & HVLP ; CINCINNATI LAMB-MICALCRON P-68, 69, 70; DENISON HF-2, HF-1 & HF-0; VICKERS M-2952-S (including: M-2950-S mobile hydraulic systems & I-286-S3 industrial hydraulic systems); ISO/TR 3498 category ISO-L HM; Homologated by GRUPO DANOBAT for ISO 32 to 150; ISO/TR 3498 category ISO-L FD; Homologated by GRUPO DANOBAT for ISO 2 to 22.</i>
HV-EXTRA *	Hydraulic controls and hydrostatic systems. Hydraulic systems requiring a low variation between viscosity, temperature and high pressures. <i>AFNOR NFE 48603-HV; DIN 51524 parts 2 & 3 (HVLP); CINCINNATI MILACRON P-68, 69, 70; DENISON HF-2 & HF-0; VICKERS M-2952-S mobile hydraulic systems & I-286-S industrial hydraulic systems).</i>
HLPD *	Ultra-refined mineral based hydraulic fluid developed for hydraulic systems and circuits with hydrostatic systems. Formulated for systems with risk of contamination by water, soluble cutting fluids, cooling fluids, contaminating agents or deposits. Strong detergent and dispersant capacity to directly absorb water. Especially recommended for machine tools. <i>DIN 51524 Part.2 (Type HLP) ; DIN 51517 Part. 3 (CLP); MAN N-698-HLPD</i>
HIDRAULIC HFC (Biodegradable)	Fire resistant hydraulic fluid. Resists corrosion. Chemically stable. Non-toxic. Biodegradable. Indicated for use in high pressure steel milling, aluminium and plastic extrusion equipment.
HIDRAULIC HFDU (Biodegradable)	Fire resistant hydraulic fluid. Highly resistant to corrosion. Chemically stable. Non-toxic. Biodegradable. Indicated for use in high pressure steel milling, aluminium and plastic extrusion equipment. HFDU type. Maintenance free.
HAND WASH PASTE	Degreaser in form of paste. Efficiently cleans hands eliminating grease, dyes, coals and sludge.
REFRACTOMETER	Controls emulsion concentrations of soluble cutting fluids and coolants. Helps to obtain the correct oil concentration for machining operations.
SW *	Anti-Stick-Slip machine tool guideway and slideway fluid. Excellent lubricating, EP and adhesive properties. Also indicated for hydraulic circuits and heavy gear drive systems.
SUPERPLUS COMPLEX TECH	Lithium Complex Extreme Pressure Grease. Highly resistant to oxidation. Strongly protects mechanisms. Industrial and automotive use.
7011-SBR	Lubricating grease for mechanisms operating at extreme speeds and temperatures, including -60°C. Especially indicated for milling heads. Speed factor: 1,000,000.

*Homologated by GRUPO DANOBAT



ECOLUB



WORPIECE MATERIALS



PRODUCT	STEEL	STAINLESS STEEL	COPPER (Cu)	ALLOY (Cu)	ALUMINIUM (Al)	ALLOY (Al)	ZINC (Zn)	ALLOY (Zn)	BRASS	FERROUS METAL	NON-FERROUS METAL	GALVANIZED	ZAMAK (Injected Casting)	CONCRETE	ACRYLIC GLASS	STONE	GLASS	VISCOSITY 40°C CST
AE	★		★	★	★	★			★	★	★							85
AE-1+DNI	★	★	★	★						★	★							
AE-ALU					★	★												53,1 (20°C)
AE-INOX-9	★	★								★								30
AE-PLUS, AE-PLUS 600 SA, AE-PLUS 220	★																	650,220, 150, 600
AMP-XL y AMP	★		★	★	★	★			★	★	★	★						1
COAL 25-34	★		★	★	★	★	★	★		★	★							46
COAL 18,...220	★		★	★	★	★	★	★	★	★	★ ^{GOLD}	★						18,...220
COAL CP-ALP2	★		★	★	★	★	★	★	★	★	★	★						22, 11
DALU	★				★	★			★	★	★	★	★					220, 1500
DAZA					★	★	★	★					★					5
DAZA - 3	★		★	★	★	★			★	★	★							1,1
DAZA-1,3,6,7					★	★	★	★					★					5
DG - 19, DG - 19 VARIEDAD - 2	★	★	★	★	★	★			★								★	PASTE
DG - 19 PULVERIZABLE	★	★	★	★	★	★			★								★	FLUID
DL - 3																★ ^{SEMI-PRECIOUS}	★	5
FCD	★	★			★	★				★	★ ^{GOLD}							28
FCD - 15	★	★			★	★				★	★ ^{GOLD}							15
MC	★	★	★	★	★	★	★	★	★	★	★	★						2
TB y TB - ESPECIAL	★	★	★	★	★	★	★	★	★	★	★	★		★				-
TV	★	★										★			★		★	-
TV - ESPECIAL	★	★	★	★	★	★			★	★	★	★			★		★	-
TS	★	★	★	★	★	★	★	★	★	★	★	★			★			-
16 - CR	★	★							★								★	46
18	★	★							★								★	80
27	★	★							★								★	NLGI-1
REF. 488																★		
DALU-220, 1500	★	★			★	★	★	★		★	★ ^{GOLD}	★						200, 1000
ELECTROCUT	★									★	★							2,5
METALCUT-P	★	★			★	★	★	★	★	★								18
MULTICUT-P	★	★	★	★	★	★			★									32
MULTICUT-L	★	★	★	★	★	★			★	★	★ ^{GOLD}							19
MULTICUT-REC	★	★	★	★	★	★			★	★	★							6
MULTICUT-BIO	★										★							32

Distributor

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