

A plant-derived general greasing oil.

ADVANTAGES

VEGEAL 32 is an oily lubricant and a very high-performance glidant.

VEGEAL 32 is a plant oil-based preparation (rapeseed oil), featuring a primary biodegradability of more than 95%.

VEGEAL 32 is free from palm oil, soya oil or derivatives.

VEGEAL 32 is GMO-free; it is obtained from conventional seeds with controlled traceability.

VEGEAL 32 is a non-toxic product of natural origin.

VEGEAL 32 is authorised for permanent food contact (vegetable oil).

NSF registration 3H category (Release Agent) N° 154557

VEGEAL 32 leaves a film on the coated surface, which evacuates heat and reduces adhesion and friction forces.

USES

VEGEAL 32 can be used in particular in agri-business as:

- a weigher-divider lubricant
- a glidant
- an anti-adhesive
- a heat evacuation agent

VEGEAL 32 must not be used with rubber seals or other sealing parts.

VEGEAL 32 is compatible with the following elastomers: High and medium-nitrile NBR, VITON and fluorinated silicone.

VEGEAL 32 can be applied by brush or by nebulisation.

VEGEAL 32 has been validated by the weigher-divider manufacturer "MECATHERM".

Characteristics	Standards	Units	Values
Appearance	-	-	Oily
Colour	-	GARDNER	2
Open cup flash point	°C	NF T 60-118	>285
Closed cup flash point	°C	NF T 60-118	>260
Kinematic viscosity at 40°C	mm ² /s	NF T 60-100	-36
Kinematic viscosity at 20°C	mm ² /s	NF T 60-100	75
Density at 20°C	kg/m ³	NF T 60-101	914

Specifications:

CARACTERISTIQUES ORGANOLEPTIQUES / ORGANOLEPTIC CHARACTERISTICS

Texture / Texture	Liquide à 20°C / Liquid at 20°C	-
Goût-Odeur / Taste-Smell	Neutre / Neutral	Panel test
Aspect / Appearance	Jaune pâle / Pale yellow	-

CONDITIONS DE CONSERVATIONS / STORAGE CONDITIONS

A l'abri de l'air, de la lumière et à température ambiante (< 25°C)
 Away from air, light and at room temperature (< 25°C)

CARACTERISTIQUES PHYSICO-CHIMIQUES / PHYSICO-CHEMICAL CHARACTERISTICS

Analyses	Unités / Units	Valeurs/values	Méthodes / Methods
Densité à 20°C / Density at 20°C	g/ml	0.914 - 0.920 *	NF ISO 6883
Indice de refraction / Refractive index	n 40D	1.465 - 1.467 * (indicative) ND	ISO 6320
Indice de saponification / Saponification value	KOH mg/1 g	182 – 193 *	AOCS Cd 3a-94
Indice d'Iode (calculé) / Iodine value (calculated)	-	105 – 126 *	AOCS Cd 1c-85
Humidité / Moisture	%	≤ 0.07	NF ISO 662
Acidité Oléique / Oleic acid	%	≤ 0.1	NF EN ISO 660
Alcalinité / Alkalinity	ppm	≤5	NF EN ISO 10539
Indice de Peroxyde / Peroxide value	meg/kg	-	-
Livraison en citerne (Départ usine)	-	≤1	NF ISO 3960
Livraison en bouteille / fût / conteneur (Au conditionnement)	-	≤2	
Phosphore total / Total phosphorus	-	≤5	NF T 60-227

* D'après le CODEX ALIMENTARIUS STAN 210 (Amendé 2005, Révisé 2009) / * In accordance with the CODEX ALIMENTARIUS STAN 210 (Amended 2005, Reviewed 2009)

COMPOSITION EN ACIDES GRAS / FATTY ACIDS PROFILE*

Acides gras / Fatty acids	Carbone / Carbon	Normes /	Méthodes /
Myristique / Myristic	C14 :0	< 0.2	Chromatographie Phase gazeuse Gas chromatography NF EN ISO 5508 and NF EN ISO 5509
Palmitique / Palmitic	C16:0	2.5 – 7	
Palmitoléique / Palmitoleic	C16:1	< 0.6	
Stéarique / Stearic	C18:0	0.8 – 3	
Oléique / Oleic	C18:1	51 - 70	
Linoléique / Linoleic	C18:2	15 - 30	
Linoléique / Linolenic	C18:3	6 - 14	
Arachidique / Arachidic	C20:0	0.2 - 1.2	
Gadoléique / Gadoleic	C20:1	0.1 - 4.3	
Béhénique / Behenic	C22:0	< 0.6	
Erucique / Erucic	C22:1	< 2	
Lignocérique / Lignoceric	C24:0	< 0.3	

* D'après le CODEX ALIMENTARIUS STAN 210 (Amendé 2005, Révisé 2009) et la base de données interne « Huiles » / * In accordance with the CODEX ALIMENTARIUS STAN 210 (Amended 2005, Reviewed 2009) and internal database "Oils".

Total Acides gras Trans / Total Trans fatty acids < 1%

CARACTERISTIQUES NUTRITIONNELLES MOYENNES / AVERAGE NUTRITIONAL CHARACTERISTICS

	Pour 100g / Per 100 g
Energie / Energy (kcal)	900
Protéines / Protein (g)	0
Glucides / Carbohydrates (g)	0
Lipides / Total fat (g)	100
Acides gras saturés / Saturates (g)	5 – 11
Acides gras saturés / Monounsaturates (g)	56 – 66
Acides gras saturés / Polyunsaturates (g)	26 – 35
Cholestérol / Cholesterol (mg)	N/A
Additifs / Additives	Aucun / None

METAUX LOURDS / HEAVY METALS*

Analyses	Unité / Units	Normes /	Méthodes / Methods
Fer / Iron (Fe)	ppm	≤ 1.5	NF EN ISO 8294
Cuivre / Copper (Cu)	ppm	≤ 0.1	NF EN ISO 8294
Plomb / Lead (Pb)	ppm	≤ 0.1	NF EN ISO 12193
Arsenic / Arsenic (As)	ppm	≤ 0.1	-

* Selon le règlement CE n°1881/2006 et ses modifications ultérieures et le CODEX-STAN 210 (Amendé 2005, Révisé 2009) / * In accordance with regulation EC 1881/2006 and its subsequent modifications and the CODEX -STAN 210 (Amended 2005, Reviewed 2009)

RESIDUS DE PESTICIDES / PESTICIDE RESIDUES

Analyses	Unité / Units	Normes /	Méthodes / Methods
Organophosphorés / Organophosphorus	ppm	**	Chromatographie phase gaz + détection spécifique ECD-NDP Gas chromatography + specific ECD-NDP detection
Organochlorés / Organochlorines	ppm	**	
Pyréthroïdes / Pyrethroids	ppm	**	

** Selon réglementations européennes et françaises – Règlement CE n°396/2005 et ses modifications ultérieures – Analyses par sondage

** In accordance with European and French regulations – Regulation EC 396/2005 and its subsequent modifications – Analyses by survey

HYDROCARBURES AROMATIQUES POLYCYCLIQUES (HAP) / POLYCYCLIC AROMATIC HYDROCARBONS (PAH) ***

Analyses	Unité / Units	Normes /	Méthodes / Methods
BaP	ppb	≤ 2	ISO15302: 1998 (E)

DIOXINES et PCB de type DIOXINE / DIOXINS et DIOXIN-like PCBs ***

Analyses	Unité / Units	Teneurs maximales / Maximum
WHO-PCDD/F-TEQ	pg/g	0.75
WHO-PCDD/F-PCB-TEQ	pg/g	1.5

HUILE MINERALE / MINERAL OIL

Analyses / Analyses	Unité / Units	Teneurs maximales / Maximum contents	Méthodes / Methods
Détermination des huiles minérales par analyse des hydrocarbures de C10 à C56 Mineral oils assay by analysis of hydrocarbons C10-C56	mg/kg	< 50 (quantification limit)	Méthode interne répliquée de l'ITERG ou laboratoire externe / Internal method from ITERG (FEDIOL recommandation) or external laboratory

The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impact shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.

Document ref.: XI-47-1507
Published: 23/04/2018

Technical data sheet