

INDUSTRIAL GEAR OIL CF SERIES (SYNTHETIC)

Series Synthetic Gear Oil's CF advanced synthetic formulation is fortified with extreme-pressure (EP) additives to provide industrial-grade performance and protection. It is designed to exceed the increased protection needs of gears and bearings operating under severe-service and shock-loading conditions. SG Series Gear Oil CF delivers complete gearbox protection, with an emphasis on extrem-pressure gear protection, heat resistance and cold-temperature operability.

Extreme-pressure formulation

SG Series Gear Oil CF is engineered to prevent metal-to-metal contact and inhibit corrosion. Its shear-stable, high- viscosity-index formulation features excellent anti-foam and air-release properties. SG Series Gear Oil CF maintains a thick lubricating film and is fortified with a heavy treatment of specialized sulfur/phosphorus EP and anti-corrosion additives. Under extreme pressures that may breach the lubricant film, an iron-sulfide barrier protects gear surfaces and inhibits wear, pitting and scuffing. SG Series Gear Oil CF demonstrates exceptional extreme-pressure performance in the FZG Scuffing and micropitting tests.

High-temperature durability

SG Series Gear Oil CF is formulated with durable base oils that are naturally resistant to oxidation. It also contains oxidation inhibitors and thermally stable additives for increased resistance to sludge formation, deposits, acid buildup and thermal degradation. AMSOIL SG Series Gear Oil CF is designed to deliver clean gears and housings throughout a long service life.

	SGJ	SGK	SGL	SGM	SGN	SGO	SGP
DIN 51517-3			X	X	X	X	X
Cincinnati Machine	X	X	X	X	X	X	X
AGMA 9005-E02	X	X	X	X	X	X	X
ISO 12925-1 (CKD)	X	X	X	X	X	X	X
David Brown S1.53.101 (Type E)	X	X	X	X	X	X	X
US Steel 224	X	X	X	X	X	X	X
AGMA 250.04	X	X	X	X	X	X	X

ISO Viscosity Grade (ASTMD2422)	68	100	150	220	320	460	680
AGMA EP Gear	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP
Kinematic Viscosity @ 100°C cSt (ASTM D445)	11.7	14.8	19.6	27	36.1	49.6	75.4
Kinematic Viscosity @ 40°C cSt (ASTM D445)	73.2	101.3	147.5	220.3	322.7	454	680.6
Viscosity Index (ASTM D2270)	155	151	152	157	158	170	192
Acid Number (ASTM 664)	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Density - 15°C (ASTM D1298)	0.860	0.863	0.866	0.869	0.872	0.875	0.878
Flash Point °C (°F) (ASTM D92)	238	238	238	240	244	246	254
Fire Point °C (°F) (ASTM D92)	280	282	286	282	288	286	312
Pour Point °C (°F) (ASTM D97)	-52	-50	-45	-42	-40	-35	-33
Copper Strip Corrosion Test 121°C, 3 hours (ASTM D130)	1B	1B	1B	1B	1B	1B	1B
Rust procedure (ASTM D665 A&B)	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation Testing 121°C 13 days, % viscosity increase @ 100°C (ASTM 2893)	2.57%	2.63%	2.06%	3.04%	3.64%	3.58%	3.58%
Foam Seq I, II, III (ASTM D892)	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 30/0, 0/0
Demulsibility (ASTM D1401)	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Micropitting @ 90°C Load Stage, GFT Classification (FVA 54)	-	-	>10 GFT = High	>10 GFT = High	>10 GFT = High	>10 GFT = High	>10 GFT = High
FZG Failure Stage (A/8.3/90)	>12	>12	>12	>12	>12	>12	>12
FZG Failure Stage (A/16.6/90)	-	-	>12	>12	>12	>12	>12
FAG FE-8 Bearing Test (DIN 51589-3)	-	-	Pass	Pass	Pass	Pass	Pass

INDUSTRIAL GEAR OIL SERIES (SYNTHETIC) Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 21/12/2023 Revision date: 19/11/2024 Supersedes version of: 06/01/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Mixture
Product name	: INDUSTRIAL GEAR OIL SERIES (SYNTHETIC)
Product code	: CMO
Type of product	: Mixture of hydrocarbons
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use, Consumer use
Industrial/Professional use spec	: For professional use only Industrial
Use of the substance/mixture	: Lubricants and additives
Function or use category	: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FACO PETROL KİMYA SANAYİ DİŞ TİCARET LTD. ŞTİ.

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info@cosmomotoroil.com / www.cosmomotoroil.com

Phone: +90 552 222 6766

1.4. Emergency telephone number

Emergency number	: Phone: +90 552 222 6766
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Colour : Pale yellow.
Odour : Characteristic odour.
Odour threshold : No data available
pH : Not applicable.
Relative evaporation rate (butylacetate=1) : No data available

Melting point	: -25 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 238 °C - 254 °C
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available.
Relative density	: 0,860 – 0,878
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable.
Serious eye damage/irritation	: Not classified pH: Not applicable.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN -	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.5. Environmental hazards

Dangerous for the environment : No	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration

EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not classified