

# TECHNICAL DATA SHEET

## IP Athesia PGX Series

### DESCRIPTION

Greases formulated with lithium hydroxy stearate soap (thickener), a high-quality, highly refined paraffinic mineral base oil, and additives with anti-corrosion, anti-rust, anti-wear and Extreme Pressure (E.P.) compounds, lead-free. The multifunctional greases of the IP Athesia PGX series, thanks to their composition, have excellent resistance to mechanical stress occurring in components subjected to high loads and shocks; they also have low oil separation tendency even under severe operating conditions.

### PROPERTIES

- High structural stability and mechanical resistance without excessive softening or hardening.
- Excellent oxidation resistance for optimal lubrication during service.
- High lubricating power ensuring protection against wear under heavy loads and impacts.
- Excellent anti-rust and anti-corrosion properties.
- Excellent pumpability and resistance to water washout.
- Extended bearing life even in humid conditions.
- Long-lasting performance for a wide range of applications.

### APPLICATION

Available in NLGI grades 00, 0, 1, 2, and 3. Suitable for vehicles, machinery, and industrial equipment under severe conditions. Recommended for gears, bearings, joints, and slides where E.P. grease is required.

### CHARACTERISTICS (TYPICAL VALUES)

IP Athesia PGX – Grades 00 / 0 / 1

Characteristic	Method	Unit	00	0	1
Classification ISO 6743-9:2003			ISO-L-XBDDDB 00	XBDDDB 0	XBDDDB 1
Classification DIN 51825			KP00N-20	KP0N-20	KP1N-20
NLGI classification	ASTM D217		00	0	1

Soap type			Lithium hydroxy stearate	Lithium hydroxy stearate	Lithium hydroxy stearate
Appearance	Visual		Semi-fluid	Soft	Pasty
Color	Visual		Amber	Amber	Amber
Dropping point	ASTM D566	°C	>160	>160	>160
Worked penetration 25°C	ASTM D217	1/10 mm	415	370	325
After 60 strokes 25°C	ASTM D217	1/10 mm	415	370	325
After 10,000 strokes 25°C	ASTM D217	1/10 mm	$\Delta \pm 20$	$\Delta \pm 20$	$\Delta \pm 20$
EMCOR corrosion test	DIN 51802		0	0	0
Water washout	ASTM D1264	%	3-5	3-5	3-5
Four-ball weld load	ASTM D2596	daN	245	245	245
TIMKEN OK load	ASTM D2509	lb	45	45	45
Base oil viscosity	ASTM D445	mm <sup>2</sup> /s	160	160	160

IP Athesia PGX – Grades 2 / 3

Characteristic	Method	Unit	2	3
Classification ISO 6743-9:2003			ISO-L-XBDDDB 2	XBDDDB 3
Classification DIN 51825			KP2N-20	KP3N-15
NLGI classification	ASTM D217		2	3
Soap type			Lithium hydroxy stearate	Lithium hydroxy stearate
Appearance	Visual		Pasty semi-hard	Pasty hard
Color	Visual		Amber	Amber
Dropping point	ASTM D566	°C	>180	>180
Worked penetration 25°C	ASTM D217	1/10 mm	280	235
After 60 strokes 25°C	ASTM D217	1/10 mm	280	235
After 10,000 strokes 25°C	ASTM D217	1/10 mm	$\Delta \pm 20$	$\Delta \pm 20$

EMCOR corrosion test	DIN 51802		0	0
Water washout	ASTM D1264	%	3-5	3-5
Four-ball weld load	ASTM D2596	daN	245	245
TIMKEN OK load	ASTM D2509	lb	45	45
Base oil viscosity	ASTM D445	mm <sup>2</sup> /s	160	160

(The analytical values shown are within normal production tolerances and do not constitute a specification; they may be changed without prior notice.)

Manufactured and packaged by Italiana Petroli S.p.A., Savona – operating under UNI EN ISO 9001 Quality System.

Information contained herein is based on our best knowledge and provided for information purposes only. Our company is not responsible for damage resulting from misuse. Users must ensure proper and safe use in compliance with applicable laws.

This product must not be used for applications other than those described.

Based on available information, this product does not pose health risks when used as intended and according to the Safety Data Sheet.

Dispose of waste and packaging in accordance with current regulations.

IP Athesia PGX – Rev. n°2 dated 02/12/2020