

Product Data Sheet

PLUSCO 120 (ZN-40), 121 (ZN-50), 122 (ZN-60), 123 (ZN-50 HT) Geothermal Grade

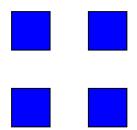
PLUSCO Zinc Based Tool Joint and Drill Collar Compounds are available in four grades, each meeting all API and IADC material specifications. **PLUSCO** Zinc Base Compounds are made using the highest quality metallic zinc powder, a premium petroleum base, and a **PLUSCO** exclusive additive package designed to provide unsurpassed protection to thread and shoulder surfaces.

PLUSCO ZN-40, ZN-50, ZN-60, and ZN-50 HT are recommended for use on tool joints, drill collars, and all other rotary shouldered connections. They may be used in deep or shallow drilling, on hard formations, for directional drilling, or for breaking in new tool joints. API and IADC recommends a compound of from 40% - 60% metallic zinc for use on tool joints and on drill collar connections.

ZN-40 is commonly used for shallow drilling and on tool joints. It is also used on drill pipe as a storage compound. **ZN-50** is the most widely accepted and used compound on the complete drill string. When a single compound is used on drill pipe and drill collars it is most often **ZN-50**. It may also be used on rotary connections as a storage compound. **ZN-60** is normally used for hard and deep formation drilling and on drill collars.

PLUSCO ZN-50 HT is recommended for drilling in geothermal and other high temperature formations. **ZN-50 HT** Geothermal Grade is designed to resist the drying effects associated with high temperature drilling. **PLUSCO 123** Geothermal Grade is designed to protect tool joints, drill collars and other rotary shoulder connections use in high temperature drilling conditions thus assuring ease of breakout on the connection.

(ZN-40-40% zinc, ZN-50-50% zinc, ZN-60-60% zinc)



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Product Data Sheet

Gasthermal Grade

PLUSCO 120 (ZN-40), 121 (ZN-50), 122 (ZN-60), 123 (ZN-50 HT) <u>Geothermal Grade</u>

Specifications On Plusco Zinc Base Thread Compounds

ZN-50

	<u>ZN-50</u>	Gastilerillai Graue
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Color	Grey	Grey
Consistency	Smooth	Smooth
Base Thickener	Lithium Base	Lithium Base
ASTM D-216 Avg.	320	320
ASTM D-566 Avg.	395° F	580° F
Flash Point	450° F	800° F
Sulphur Content	< 0.2%	< 0.3%
Temperature Range	0° F (-18°C) to 350° F	$0^{\circ} \text{ F (-18°C) to } 575^{\circ} \text{F}$
Brushability	0° F (-18°C)	0° F (-18°C)
Pct. Solids	50%	50%
Sealing Pressures PSI (Tested to)	20,000 lbs.	20,000 lbs.
Shelf Life	2 Years	2 Years
Other Properties	Water Insoluble	Water Insoluble
	Washout Resistant	Washout Resistant
	Corrosion Inhibited	Corrosion Inhibited
	Extreme Pressure Rated	Extreme Pressure
		Rated

PACKAGING:

- 1 GAL. PAIL
- 2 GAL. PAIL
- 3.5 GAL. PAIL
- 5 GAL. PAIL
- 45 LB. ENVIRO PACK

PLUSCO, Inc., P.O. Box 7953, Houston, Texas 77270

Warranty: Because the conditions of use and the supervision of application are beyond the control of Plusco, Inc., we assume no liability for any product failure or other damage beyond the purchase price of the material furnished by us. No agent or representative or employee of this company is authorized to change this provision which relates to all goods delivered whether sold or delivered as samples or otherwise.