

Technical Data Sheet

JY-PVC JY02

DOP-Free Foamed PVC Sealing Compound for Vacuum Closures / Lug Caps

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Application

JY-PVC FS-3523 is a one-component, heat-curable PVC plastisol foam sealing compound designed for metal vacuum closures, lug caps and twist-off caps. It is applied as a liquid bead and baked to form a resilient cellular gasket with stable sealing performance after proper curing. Recommended cap size range: 38-82 mm. Compound weight depends on cap size, groove design, target gasket profile and customer packing requirements. Suitability for each filling process and end use must be confirmed by machine trials and pack tests.

Filling Process & Post Treatment

Item	Typical Information / Recommendation
Exemplary filling goods	Tomato products, pickles, fruit juices, sauces, condiments and similar food products after validation
Hot fill	Up to 95 deg C, subject to customer pack test
Pasteurisation	30 min, up to 100 deg C, subject to customer pack test
Sterilisation / retort	Not recommended unless separately validated by customer pack test

Characteristics

Characteristic	Unit	Typical Value	Method / Remark
Appearance	-	Light yellow to off-white viscous liquid	Visual
Base polymer	-	PVC plastisol	-
Plasticizer system	-	DOP-free ATBC/DOTP-based system	Can be adjusted according to confirmed requirement
Viscosity at 25 deg C	mPa.s	2,200 +/- 700	NDJ/Brookfield method, spindle and speed to be agreed
Specific gravity of liquid product	g/cm3	1.24 - 1.30	Internal method / based on ASTM D1475
Specific gravity after curing	g/cm3	0.95 - 1.05	Internal method / based on ASTM D792
Cured gasket color	-	White to off-white	Visual
Typical hardness after curing	Shore C	30 - 45	Adjustable according to closure design

Processing Parameters

Process	Recommended Compound Condition	Recommended Metal Cap Temperature	Typical Curing Time
Injection / lining line	Ambient material temperature; stir uniformly before use	190 - 210 deg C	60 - 90 sec

The above parameters are general starting points. Actual oven setting, actual cap temperature, line speed and dwell time should be adjusted according to cap size, compound weight, oven efficiency and machine configuration. The compound should be stirred well before use while avoiding air entrapment.

Storage and Packaging

Item	Information
Storage	Store in the original sealed container at 5-37 deg C. Avoid direct sunlight, high heat, freezing, rain, water, solvent contamination and sources of off-taste. Use FIFO system.
Shelf life	9 months from production date in unopened original packaging under recommended storage conditions.
Packaging	22 kg pail or 250 kg steel drum. Other packaging sizes may be available upon order confirmation.

Regulatory Information

This TDS is not a Declaration of Compliance. Available third-party test reports for the tested sample can be provided separately. Final compliance depends on the complete closure construction, gasket mass, curing condition, food type, contact time, contact temperature, filling process and applicable destination-market regulations.

Supplier: Jiangyin Jinyu Packaging Materials Co., Ltd. | Contact: David Huang | Website: www.jy-jy.com

Disclaimer: Typical data only. Customer trial and final compliance confirmation are required under actual production and end-use conditions.