

SONGSTAB™
CaZn stabilizers for
PVC cables & wires

SONGWON is a leading specialist in high end sheathing and insulation applications for the wire and cable industry.

For the past 10 years, SONGWON has been developing, manufacturing and marketing solid, high performance Calcium Zinc (CaZn) stabilizers designed to meet both the demanding requirements of high end sheathing and insulation applications for the cable industry and today's stringent EHS standards.

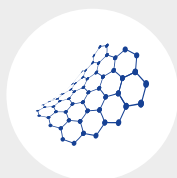
SONGSTAB™ CaZn is a wide range of cost effective processing stabilizers that greatly enhance the performance of finished PVC cable compounds, providing excellent heat stability, good electrical properties, and mechanical properties, and minimizing water absorption.

It's all about **the chemistry™**

 **SONGWON**

SONGWON – Extensive experience in the wire and cable industry

SONGSTAB™ CaZn stabilizers in a nutshell



Wide range of sheathing and insulation applications

Designed to meet stringent EHS standards

Cutting edge quality

Comprehensive technical expertise



Dedicated PVC testing laboratory in South Korea

Ability to develop and supply tailor-made PVC stabilizer solutions

Proven reliability



More than 50 years' manufacturing experience in South Korea

Global sales organization and distribution channels in Asia, Europe, North America and Middle East

Strong commitment



Continuous innovation to meet new PVC industry standards

High emphasis on environmentally compatible solutions

☞ More than 10 years' experience in the development of CaZn systems as alternatives to lead stabilizers

SONGSTAB™ Ca-Zn stabilizers generate significant value for wire and cable manufacturers

☞ SONGSTAB™ CZ-SC490 and SONGSTAB™ CZ-SC491 are solid CaZn stabilizers developed for light pigmented and dark pigmented PVC cable formulations respectively. They confer outstanding heat stability to 90°C - 105°C PVC cable compounds, give high Congo red values, have excellent electrical properties, and absorb very little water.

☞ SONGSTAB™ CZ-SC900 and SONGSTAB™ CZ-SC910 are solid CaZn stabilizers developed for light pigmented and dark pigmented PVC cable formulations respectively. They confer outstanding heat stability to 105°C - 125°C PVC cable compounds, give high Congo Red values, have excellent electrical properties, and absorb very little water.

☞ SONGSTAB™ CZ-S39 was developed for transparent cable application and is a solid CaZn stabilizer that confers outstanding heat stability and gives high Congo Red values.

SONGSTAB™ CaZn stabilizers recommended for PVC cable & wire applications

		Formulation						Two roll mill condition	
		PVC resin [phr]	TOTM [phr]	DIDP [phr]	CaCO3 [phr]	TiO2(R) [phr]	Stabilizer [phr]	Roll temp. (°C)	Mixing time (min)
Light pigmented PVC cable	SONGSTAB™ CZ-SC490	100	-	50	50	1	5	190	5
Dark pigmented PVC cable	SONGSTAB™ CZ-SC491	100	-	50	50	1	5	190	5
Light pigmented PVC cable	SONGSTAB™ CZ-SC900	100	50	-	30	1	8	175	5
Dark pigmented PVC cable	SONGSTAB™ CZ-SC910	100	50	-	30	1	8	175	5
Transparent PVC cable	SONGSTAB™ CZ-S39	100	-	40	-	-	5	180	5

Static heat stability (200°C)

Light pigmented PVC cable	SONGSTAB™ CZ-SC490
	Competitor A
Dark pigmented PVC cable	SONGSTAB™ CZ-SC491
	Competitor A
Light pigmented PVC cable	SONGSTAB™ CZ-SC900
	Competitor A
Dark pigmented PVC cable	SONGSTAB™ CZ-SC910
	Competitor A
Transparent PVC cable	SONGSTAB™ CZ-S39
	Competitor A

10 min 20 min 30 min 40 min 50 min 60 min 70 min



Light pigmented PVC cable	SONGSTAB™ CZ-SC490
	Competitor A
Dark pigmented PVC cable	SONGSTAB™ CZ-SC491
	Competitor A
Light pigmented PVC cable	SONGSTAB™ CZ-SC900
	Competitor A
Dark pigmented PVC cable	SONGSTAB™ CZ-SC910
	Competitor A
Transparent PVC cable	SONGSTAB™ CZ-S39
	Competitor A

Congo Red (200°C)

Water absorption (70°C x 7 days)

50.3 min	1,04 %
49.3 min	1,05 %
50.0 min	1,13 %
49.3 min	1,11 %
192.3 min	0,78 %
157.3 min	0,8 %
189.0 min	0,7 %
154.0 min	0,69 %
79.3 min	-
68.3 min	-



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