

Smarter Stabilization  
Solutions for  
**Coatings**



# GLOBAL SOLUTIONS

In the coatings industry customer and market demands are constantly evolving. From increased durability of decorative coatings, to easier application of vehicle coatings, to greater resistance to the natural elements of protective and marine coatings. Addivant™ is well positioned to help meet these challenges as a leading supplier of additive solutions to meet the technical and aesthetic requirements of your customers

Consumers are looking for solutions that offer the best protection, aesthetics and optimized product performance reliably, worldwide. Our goal is to be the most innovative supplier of stabilization solutions to the coatings industry, enabling our customers to set new standards in performance, reliability and environmental compliance.

## OUR PRODUCTS

We are a leading supplier of Antioxidants, UV Stabilizers, Dispersants and Intermediates to the coatings industry. Using our extensive range of specialty solutions, you can reduce polymer degradation avoiding yellowness or extend the brightness and longevity of your film. We can propose the ideal solution to meet the exact needs for your specific application, ensuring more durable protection and better aesthetics for optimized product performance.

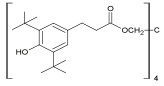
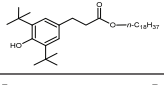
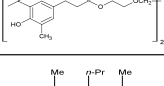
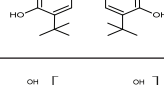

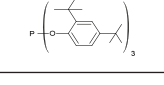
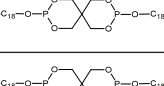
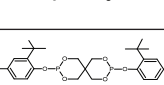

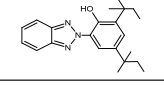
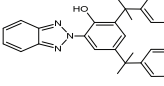
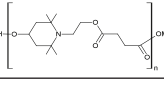
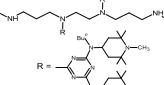
Addivant™ is actively engaged in research and development to further develop innovative solutions which bring value to our customers to address their specific needs to provide extended application lifetime, more durable performance and increased efficiency.



## OUR VISION

- 
- *To be the world's most innovative supplier to the coatings industry*
  - *To be our customer's first choice for the cleanest and most reliable solutions*
  - *To offer the best cost performance solutions through real innovation*
  - *To invest in line with our customers' growth strategies*
-

# POWDER COATINGS SELECTOR GUIDE

CAS #	Chemical Structure	Type	Form	Molecular Weight	Melting Range	Performance / Features
<b>Primary Antioxidants</b>						
<b>ANOX® 20</b>	6683-19-8 	Phenolic	PW	1178	110 - 125°C	General purpose phenolic antioxidant providing excellent long term heat stability
<b>ANOX® PP18</b>	2082-79-3 	Phenolic	PW	531	50 - 55°C	General purpose phenolic antioxidant with good solubility
<b>LOWINOX® GP45</b>	36443-68-2 	Phenolic	PW	587	76 - 79°C	High molecular weight phenolic antioxidant with very low volatility and excellent resistance to extraction
<b>LOWINOX® 44B25</b>	85-60-9 	Phenolic	PW	383	209 - 212°C	High activity, non discoloring phenolic antioxidant with chemical and hydrolytic stability for excellent paint base color in polyester resins for powder coatings
<b>LOWINOX® CPL</b>	68610-51-5 	Phenolic	PW	600 - 700	> 105°C	High activity, non discoloring, high molecular weight phenolic antioxidant with low volatility for long term stability in powder coating applications exposed to environment
<b>Processing Antioxidants</b>						
<b>ALKANOX® 240</b>	31570-04-4 	Phosphite	PW	647	180 - 185°C	General purpose phosphite providing good processing stability
<b>WESTON® 618F</b>	3806-34-6 	Phosphite	FL	732	37 - 46°C	High performance phosphite with excellent color stability
<b>WESTON® 619F</b>	3806-34-6 (+ 122-20-3) 	Phosphite	FL	732	37 - 46°C	High performance phosphite with excellent color stability and improved hydrolytic stability
<b>ULTRANOX® 626</b>	26741-53-7 	Phosphite	PW	604	170 - 180°C	High phosphorus content / high performance heat stabilizer, providing protection during high temperature processing and/or curing cycles
<b>Blends of Antioxidants</b>						
<b>ANOX® BB011</b>	1131570-04-4 + 6683-19-8	Alkanox® 240: Anox® 20	PW			Synergistic blend of antioxidants for balanced protection during processing and long term aging
<b>Light Stabilizers - UV Absorbers</b>						
<b>LOWILITE® 28</b>	25973-55-1 	Benzotriazole	PW	351	80 - 88°C	General purpose benzotriazole with low base color
<b>LOWILITE® 234</b>	70321-86-7 	Benzotriazole	PW	448	137 - 141°C	High molecular weight benzotriazole with low volatility for effective UV protection in high heat curing applications and with good compatibility with polar polymers
<b>Light Stabilizers - HALS</b>						
<b>LOWILITE® 62</b>	65447-77-0 	HALS	GR	3100 - 4000	55 - 77°C	Tertiary high molecular weight HALS with low basicity and very low color
<b>LOWILITE® 19</b>	106990-43-6 (+ 65447-77-0) 	Tertiary HALS	GR	2286	115 - 150°C	High molecular weight HALS with low volatility for UV stabilization of powder coating via ribo-static process

Physical Form:

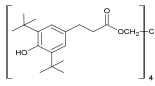
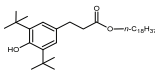
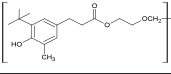
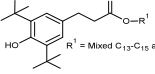
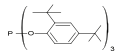
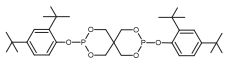
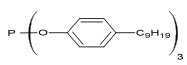
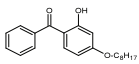
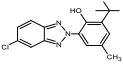
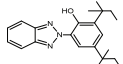
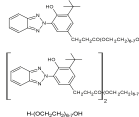
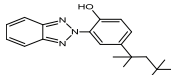
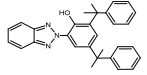
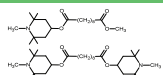
PW Powder

FL Flake

GR Granular

L Liquid

## LIQUID COATINGS SELECTOR GUIDE

	CAS #	Chemical Structure	Type	Form	Molecular Weight	Melting Range	Performance / Features
<b>Primary Antioxidants</b>							
<b>ANOX® 20</b>	6683-19-8		Phenolic	PW	1178	110 - 125°C	General purpose phenolic antioxidant providing excellent long term heat stability
<b>ANOX® PP18</b>	2082-79-3		Phenolic	PW	531	50 - 55°C	General purpose phenolic antioxidant with good solubility
<b>LOWINOX® GP45</b>	36443-68-2		Phenolic	PW	587	76 - 79°C	High molecular weight phenolic antioxidant with very low volatility and excellent resistance to extraction
<b>ANOX® 1315</b>	171090-93-0		Phenolic	L	485 (avg)		Low viscosity liquid phenolic antioxidant with good solubility in non-polar substrates
<b>Processing Antioxidants</b>							
<b>ALKANOX® 240</b>	31570-04-4		Phosphite	PW	647	180 - 185°C	General purpose phosphite providing good processing stability
<b>ULTRANOX® 626</b>	26741-53-7		Phosphite	PW	604	170 - 180°C	High phosphorus content / high performance phosphite stabilizer, providing protection during high temperature processing and/or curing cycles
<b>WESTON® TNPP</b>	26523-78-4		Phosphite	L	688		High purity liquid phosphite providing higher solubility and much lower tendency to plate-out and blooming than solid phosphites
<b>WESTON® 705</b>	Proprietary	Proprietary	Phosphite	L			Innovative nonylphenol-free, high purity liquid phosphite, with higher phosphorus content and more effective than solid phosphite AO 168 and TNPP types
<b>Blends of Antioxidants</b>							
<b>WESTON® LPP BLENDS:</b>			High performance phosphite/phenolic blends				Liquid blends
<b>WESTON® 812</b>	Proprietary			L			Optimum processing and long term stabilization
<b>WESTON® 815</b>	Proprietary			L			Good anti-gas fading properties
<b>WESTON® 831</b>	Proprietary			L			Non-staining and non-discoloring applications
<b>Light Stabilizers - UV Absorbers</b>							
<b>LOWILITE® 22</b>	1843-05-6		Benzophenone	PW	327	47 - 50°C	General purpose benzophenone with low volatility
<b>LOWILITE® 26</b>	3896-11-5		Benzotriazole	PW	316	137 - 142°C	General purpose benzotriazole for applications requiring food contact approval
<b>LOWILITE® 28</b>	25973-55-1		Benzotriazole	PW	352	80 - 88°C	General purpose benzotriazole with low base color
<b>LOWILITE® 1130</b>	104810-48-2 / 104810-47-1		Benzotriazole	L	637 / 975		Liquid benzotriazole for easy solubility and dispersion in solvent and water borne coatings, providing superior protection against gloss reduction, cracking, blistering, delamination and color change
<b>LOWILITE® 29</b>	3147-75-9		Benzotriazole	PW	323	102 - 108 °C	Benzotriazole providing strong UV protection for effective light stabilization and prevention of degradation and yellowing
<b>LOWILITE® 234</b>	70321-86-7		Benzotriazole	PW	448	137 - 141°C	High molecular weight benzotriazole with low volatility for effective UV protection in high heat curing applications and with good compatibility with polar polymers
<b>Light Stabilizers - HALS</b>							
<b>LOWILITE® 92</b>	41556-26-7 / 82919-37-7		HALS	L	509 / 370		Liquid secondary HALS with low basicity for coating applications
<b>Light Stabilizers - Proprietary Blend</b>							
<b>LOWILITE® UV B1260</b>	Proprietary		Blend of UV & thermal stabilizers	L	509 / 370		Low viscosity liquid, also suitable for stabilization of pastes, for high UV protection in exterior applications.

## DISPERSANTS SELECTION GUIDE

	CAS #	Type	Form	Solid Content	Molecular Weight	Performance / Features
<b>Dispersants</b>						
<b>POLYWET® ND-2</b>	68479-09-4 (active component)	Water soluble anionic oligomeric surfactant / polyelectrolyte	L	25%	1000 - 2000 (oligomer)	Non-foaming dispersant effective over a broad pH range, used to disperse pigments, extenders and fillers in aqueous systems and latex paints, including gloss latex enamels. FDA approval for various applications.
<b>POLYWET® Z-1766</b>	68479-09-4 (active component)	Water soluble anionic oligomeric surfactant / polyelectrolyte	L	33%	3000 - 4000 (oligomer)	Non-foaming dispersant effective over a broad pH range, used to disperse coating pigments. Recommended as dispersant of inorganic pigment slurries. FDA approval for various applications.

## INTERMEDIATES SELECTION GUIDE

<b>NonylPhenol</b>						
<b>TECHNICAL AND HIGH PURITY GRADE</b>	84852-15-3		L	25%	1000 - 2000 (oligomer)	Preparation of ethoxylated surfactants and phenolic resins

## WHY ADDIVANT™?

### Because we offer:

- True innovation and partnership in development
- The cleanest and highest quality range of performance solutions
- Global reach and supply capabilities
- Unbeatable technical expertise and application knowledge
- Continued strategic investments in emerging markets
- Significant investments in regulatory compliance

### Because we are committed:

- To be the world's most innovative supplier to the coatings industry
- To be our customer's first choice for the cleanest and most reliable solutions
- To offer the best cost performance solutions through real innovation
- To invest in line with our customers' growth strategies

**ALKANOX®**

**ANOX®**

**LOWILITE®**

**LOWINOX®**

**POLYWET®**

**ULTRANOX®**

**WESTON®**



The information contained herein is correct to the best of our knowledge. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein.

All sales are subject to Addivant's standard terms and conditions of sale, copies of which are available upon request and which are part of Addivant's invoices and/or order acknowledgements. Except as expressly provided in Addivant's standard terms and conditions of sale, no warranty, express or implied, including warranty of merchantability or fitness for a particular purpose, is made with respect to the product described herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without license from the owner of the patent.

© Copyright 2013

The tradenames in this brochure are registered trademarks of Addivant™ and/or its subsidiaries.



**Responsible Care®**  
*Good Chemistry at Work*

Responsible Care®

Addivant™ is dedicated to Responsible Care®, the chemical industry's initiative to protect the environment; ensure the safety and security of our operations; and safeguard the health and safety of our employees and neighboring communities. Our goal is to make continuous progress toward the vision of no accidents, injuries or harm to the environment. As active and responsible members of the communities in which we operate, Addivant™ is committed to open communication with our employees and neighbors. We monitor the safe production, transportation and use of our products. Our employees are comprehensively trained to do their jobs safely and with minimum impact on the environment. We care about the future — for all of us. If you have any questions, or would like to comment on our Responsible Care program, please send an email to [RCMS@addivant.com](mailto:RCMS@addivant.com).

[addivant.com/addresses](http://addivant.com/addresses)