



**Honeywell High
Performance Lubricants**
Lubricants for Cellular PVC

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Choosing the right lubricant can affect the PVC process from extrusion to the finished product the end-customer receives. Cellular PVC is the fastest growing segment in the PVC market because it is a lightweight option that offers quality properties such as water resistance, wood replacement and low maintenance. To get the most out of its benefits, you will need a cost-effective and process-efficient lubricant. With more than 50 years of experience, Honeywell continues to provide differentiated solutions for your PVC processing needs.

Cellular PVC Lubricant Solutions

Honeywell's new lubricants for cellular PVC can help reduce overall material cost, minimize scrap rate and reduce the number of lubricants used in formulations without sacrificing quality. With Honeywell's new lubricants, you will see improved output, good color stability, surface quality and printability on your cellular PVC product.

TLP-2042 is an external lubricant that aids with metal release and improves processing. It controls the fusion point to enhance density.

RL-2163 is an internal lubricant that does not affect the fusion properties of the compound. It promotes the melt flow in processing equipment.

Honeywell's lubricant system solutions offer novel formulation and manufacturing concepts. The solutions are available as fully-formulated or partial lubricant systems (with or without a co-stabilizer), or as single ingredients.

For additional information or to contact us, please visit:
honeywell-additives.com

Case Study: Formulation Cost Reduction

An established US producer of high quality trim board saw shrinking margins from low cost competition and turned to Honeywell for a solution that would enable them to maintain – and even grow – margins.

By using the Honeywell cellular PVC lubricant, the company was able to streamline its lubricant system, reduce the dosage of the lubricant and eliminate a processing aid. The total number of ingredients was reduced from 12 to seven, therefore lowering the overall formulation cost and simplifying the logistics and operations.

Formulation Material	Purchase Price* (\$/lb)	Control				Honeywell			
		Usage (PHR)	Specific Gravity	Compound Cost (\$)	Unit Volume (ft ³)	Usage (PHR)	Specific Gravity	Compound Cost (\$)	Unit Volume (ft ³)
PVC Resin	\$0.65	100.00	1.41	\$0.515	70.92	100.00	1.41	\$0.525	70.92
Stabilizer	\$2.70	2.50	0.99	\$0.053	2.53	2.50	0.99	\$0.055	2.53
Lubricant	\$2.50	1.30	1.00	\$0.026	1.30				
Lubricant	\$0.65	0.90	0.90	\$0.005	1.00				
Lubricant	\$0.94	0.30	0.90	\$0.002	0.33				
Lubricant	\$2.50	0.10	0.98	\$0.002	0.10				
Lubricant	\$0.60	0.20	0.90	\$0.001	0.22				
Honeywell Lubricant	\$2.50					2.40	1.00	\$0.048	2.40
Process Aid	\$1.55	8.00	1.11	\$0.098	7.21	8.00	1.11	\$0.100	7.21
Process Aid	\$1.55	2.00	1.11	\$0.025	1.80				
TiO ₂	\$1.15	4.00	4.20	\$0.036	0.95	4.00	0.90	\$0.037	4.44
CaCO ₃ (3μ)	\$0.15	2.70	2.70	\$0.006	1.85	5.00	2.70	\$0.006	1.85
CBA	\$2.10	1.00	1.00	\$0.032	1.92	1.92	1.00	\$0.033	1.92
Total		126.22	1.43	\$0.77	88.22	123.82	1.39	\$0.77	\$89.35
				Cost/ft³: 68.67				Cost/ft³: 66.69	

Change in Density:	-3.14%
Change in Compound Cost per ft ³ :	-2.88%

Using Honeywell's lubricants for cellular PVC, the company retained its high-quality trim board business and is estimated to generate an additional \$2.5 million USD savings in cost of goods sold based on 100 million pounds per year of compound.

*The price of materials used is an estimate only and should not be considered a quote.

The Honeywell Advantage

No matter the product, Honeywell lubricants for cellular PVC offer a series of advantages that will directly benefit both the manufacturer and the end-customer. Honeywell's lubricants for cellular PVC offer stability at low temperatures, weather-resistance qualities and chemical stability.

Our products can help you get more performance, cost savings and manufacturing efficiency out of your formulations. With our extensive experience, scale and know-how, we manufacture products that consistently deliver functionality, backed by a team of Honeywell technical support specialists ready to help customize the solution to your unique requirements.

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