

# INEOS Melamines

## *Amino Resins with **Low Free Formaldehyde***

Effective January 1st, 2016 Formaldehyde has been re-classified in Europe and is subject to more stringent regulations. In anticipation of this move and to better serve our customers, INEOS Melamines, over the past years, had strengthened its work on free formaldehyde reduction.



As a result of our efforts we can today offer a wide range of products with a free formaldehyde specification  $< 0,1\%$ . Other INEOS Melamines products have free formaldehyde contents low enough that our customers final formulations are not required to be labeled with reference to the new classification.

This brochure, which shows some new and well known products, represents an extract from our current full product range.

For further information or technical support please contact your local INEOS Melamines representative or use the following address:



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## COATINGS

PRODUCT	Automotive	Can & Coil	Foil	Industrial	Plastic	Wood	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %
RESIMENE 747 ULF	X	X	X	X			HMMM	> 98	< 0,1
RESIMENE 755	X						Hexa-Me/nB	> 98	< 0,1
RESIMENE 757	X						Hexa-Me/nB	> 98	< 0,1
RESIMENE 764	X						Hexa-Me/nB	> 98	< 0,1
MAPRENAL MF 905/95	X						Hexa-Me/nB	94 – 96	< 0,1
MAPRENAL MF 909/93IB	X						Hexa-Me/nB	91 – 95	< 0,1
RESIMENE CE-7103	X	X			X	X	Hexa-Me/nB	> 98	≤ 0,03
RESIMENE CE-8824 ULF		X					BF resin, Tetra Me/Et	> 98	< 0,1
MAPRENAL MF 900w/95	X	X	X	X			HMMM	93 – 96	< 0,5
RESIMENE 741	X	X		X			Penta-Me	86 – 90	≤ 0,4
RESIMENE HM-2608 LF	X	X		X			Tetra-Me	88 – 92	< 0,5
RESIMENE AQ-2611			X				Tetra-Me	82 – 85	< 0,3

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PRODUCT	Automotive	Can & Coil	Foil	Industrial	Plastic	Wood	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %
RESIMENE AQ-7551	X			X		X	Tri-Me	75 – 80	< 0,5
MAPRENAL VMF 3935/70B	X			X			Tri-Me/nB	69 – 71	< 0,2
RESIMENE CE-1058	X						Tri-Me/nB	69 – 72	< 0,5
RESIMENE CE-1053	X						Tetra-Me/nB	69 – 71	< 0,5
RESIMENE BM 5901	X						Tri-nB	78 – 82	< 0,5
MAPRENAL MF 612/70B	X			X			Tetra-nB	68 – 72	< 0,5
MAPRENAL MF 618/76B	X			X			Tetra-nB	75 – 77	< 0,5
RESIMENE 895	X	X		X			Tetra-nB	62 - 66	< 0,5
MAPRENAL UF 134/60B		X		X		X	UF resin, butylated	58 – 62	< 0,5

### Abbreviations

**LF** = Low Formaldehyde  
**ULF** = Ultra Low Formaldehyde  
**B / nB** = n-Butanol, n-Butyl  
**WA / w** = Water, water-soluble  
**Me** = Methanol, methylated  
**X** = Xylene  
**Et** = Ethanol, Ethyl  
**iB** = Isobutanol, Iso-Butylated

**BF** = Benzoguanamine-Formaldehyde  
**UF** = Urea-Formaldehyde  
**CE** = Co-Ether

## TIRE, PAPER, TEXTILE and CONSTRUCTION

PRODUCT	Construction	Nonwoven	Paper	Textile	Tire	TYPE	NON-VOLATILES %	FREE FORMALDEHYDE %
RESIMENE XT 911 ULF					X	HMMM	> 98	< 0,1
RESIMENE 3520					X	HMMM	> 98	≤ 0,15
RESIMENE XT 926					X	HMMM Powder	63.5 – 66.5*	< 0,1
RESIMENE 3520 S-65					X	HMMM Powder	63.5 – 66.5*	< 0,1
MADURIT XT 850w/50WA		X		X		HMMM	48 - 52	< 0,1
MADURIT MW 120 ULF		X	X	X		Methylated	74 – 76	< 0,1
MADURIT VMW 3119/70WA		X	X			Methylated	68 – 72	< 0,1
MADURIT MW 113/75WA		X	X	X		Methylated	75 – 77	< 0,3
RESIMENE AQ-7551		X	X	X		Methylated	75 – 80	< 0,5
MADURIT MW 310w/40WA	X					Sulfonated	39 – 41	< 0,2
MADURIT MW 311	X					Sulfonated, Powder	> 98	< 0,1

\*active resin content