

旭懋化工實業有限公司

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Product	Unit	HONON 12A5	HONON AE-235	Tergitol NP-6	HONON AE-235: AE-237 =10:3	HONON 12A7	HONON AE-237	Tergitol NP-9	HONON 12A10	HONON AE-239	Tergitol NP-10	HONON AE-237: AE-239 =1:1
Based on		C12C13 oxo alcohol	C12/C13 FT oxo alcohol	nonylphen ol		C12C13 oxo alcohol	C12/C13 FT oxo alcohol	nonylphen ol	C12C13 oxo alcohol	C12/C13 FT oxo alcohol	nonylphen ol	
Active Content	weight %	100	100	100		100	100	100	100	100	100	
Average Ethoxylation Degree	moles EO	5	5	6		7	7	9	10	9	10	
Average Molecular Weight	g/mol	416	404	484		506	510	616	638	584	651	
HLB (calculated)	—	10.6	10.3	10.9	10.9	12.3	12.9	12.9	13.9	13.5	13.2	13.2
Appearance at 25 °C	—	clear liquid	turbid liquid	clear liquid		turbid liquid	turbid liquid	clear liquid	White paste	pasty	clear liquid	
Cloud Point in water (1)	°C	—	—	—			53	54	80	81	63	65
Cloud Point in BDG (2)	°C	67	71	69	72	77	80	—	—	—	—	
Melting / Solidification Point	°C	8 -- 13	3	-22		13 -- 18	13	4	20 -- 25	12	6	
Wetting Value (3)	seconds	16	17	42		18	19	19	26	32	35	
Foaming Value at 25°C (30s/5min)(4)	ml	65/50	40/30	30/25		280/180	170/120	170/130	320/200	230/140	180/140	

¹ 1 % in deionised water

² 10% in 25% butyldiglycol solution

³ to DIN EN 1772, time for cotton wetting, 1g/l, 25°C

⁴ DIN 53917, 1g/l, 1% in deionised water

⁵ FT:Fischer-Tropsch Process

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	Carbon distribution	Primary Alcohol	Secondary Alcohol		
		R-COH	R-C-C COH	R-C-R OH	C-C-C-C-C-C-C-C-C C OH C C
		Linear	Methyl Branched	Mono Branched	Multi Branched
Honon A series	C12-14	100 %			
Honon 12A series	C12-13	46%	54%		
Honon AE-23 series	C12-13	50%	30%	20%	
Tergitol 15-S-series	C12-14			100%	
Triton TMN-series	C12				100%
Softanol series	C12-14			100%	

Constant Alkyl Chain length and ethoxylation degree

	Linear	Branched
Biodegradability	High	High
Cloud point	High	Low
CMC	Low	High
Emulsifying efficiency	High	Low
Foam	High	Low
Melting point	High	Low
Occurrence of gel	High	Low
Solubility	Low	High
Wetting	Low	High