

ULTRA-PEP™

A complete uniform peptisation of natural rubber with long-term lower Mooney viscosity can be achieved with ULTRA-PEP™ products. No blooming occurs even at high dosages since ULTRA-PEP™ products are soluble in the elastomer matrix. The pastille form facilitates easy and safe product handling and the low dropping points enable good incorporation into rubber.

Product	Appearance / Form	Chemical Composition	Dropping Point (°C)	Applications
ULTRA-PEP™ 90	Beige pastilles	Blend of metal soaps with dibenzamido diphenyl disulphide.	98	It works as a mild mastication agent in the early stage of NR compounding and subsequently improve down line processing.
ULTRA-PEP™ 96	Bluish grey pastilles	Blend of 13% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers.	57	It is a medium concentration peptiser giving excellent batch to batch uniformity.
ULTRA-PEP™ 98	Bluish grey pastilles	Blend of 25% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers.	55	It is a medium concentration chemical peptiser and processing additive for natural rubber.
ULTRA-PEP™ 148	Bluish grey pastilles	Blend of 40% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers.	55	It is a high concentration peptiser that is extremely effective at low dosage levels.
ULTRA-PEP™ 181	Beige pastilles	Blend of 40% dibenzamido diphenyl disulphide on low melt carriers without catalysts.	55	A non-discolouring peptiser that can be used for light colour rubber goods.

ULTRA-PEP™ √ = As Used √√ = Best Suited	ULTRA-PEP™ 90	ULTRA-PEP™ 96	ULTRA-PEP™ 98	ULTRA-PEP™ 148	ULTRA-PEP™ 181
Chemical Composition	Blend of metal soaps with dibenzamido diphenyl disulphide	Blend of 13% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers	Blend of 25% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers	Blend of 40% dibenzamido diphenyl disulphide and organo metal complex on low melt carriers	Blend of 40% dibenzamido diphenyl disulphide on low melt carriers without catalysts
Functions					
Mastication (Mooney viscosity reduction)	√√	√√	√√	√√	√√
Process enhancement					
Mixing (faster incorporation)	√	√	√	√	√
Down line processing	√	√	√	√	√
Appearance	Beige pastilles	Bluish grey pastilles	Bluish grey pastilles	Bluish grey pastilles	Beige pastilles
Dropping point, (°C)	98	57	55	55	55
Dosage (phr)	1 ~ 3	0.2 ~ 0.5	0.2 ~ 0.5	0.1 ~ 0.3	0.2 ~ 0.5
Sequence of addition					
Pre-mastication with polymer(s)	Omit pre-mastication	√√	√√	√√	√√
Second stage mixing	√√	–	–	–	–
As used for:					
NR	√	√	√	√	√
SBR (as blend)	√	–	–	–	–
BR (as blend)	√	–	–	–	–