

## 4.2 无硼无胺乳化复合包

产品 **Emulsifier EM 4111 PE N**

特性 **EM 4111 PE N** 是一款乳化型助剂包，适用于配制水溶性加工液或无矿物油型加工液。本产品不含胺、矿物油以及硼类物质。EM4111pen 含 19%的苯氧乙醇。

技术数据		典型数值	规格		
			最小	最大	
颜色	:	棕色			
密度 20°C (g/cm <sup>3</sup> )	:	1.043	1.033	1.053	DIN 51 757
酸值. (mg KOH/g)	:	5	3	7	ACL-001
水含量(wt.%)	:	11	9	13	DIN 51 777-1
折射指数(n <sub>D20</sub> )	:	1.483	1.473	1.493	DIN 51 423-2
pH-值 1%	:	9.4	9.1	9.7	DIN 51 369

应用 推荐初始配方

Emulsifier EM 4111 PE N	50.0 wt.%
Estilube L 360	46.0 - 47.0 wt.%
Bactericide	1.0 wt.%
Fungicide (e.g. Sodumpyron)	1.0 wt.%
Defoamer ES 504	0.5 - 1.0 wt.%
Defoamer ES 561	0.5 - 1.0 wt.%

依此配方生成的 5% 浓度乳液呈乳白色，pH 值在 9.1-9.3 之间。根据德国工业标准 DIN51360/2 进行过铁屑滤纸测试后浓度为 4% 时，锈蚀程度为 0。

存储 **EM 4111 PE N** 原装密封条件下在 10°C 到 30°C 之间可以安全存放至少 6 个月

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