

# Polyamide-imide Wire Enamel (PAI)

## 聚醯胺醯亞胺漆包線漆

Product	Viscosity		Solid Content		Characteristics And Applications	Conductor Diameter	Film Thickness	Heat Shock		Cut Through	Breakdown Voltage	Flexibility		Tanθ (Static Type)	Freon Resistance Extraction		Freon Resistance B.D.V. residue		Freon Resistance Blister		Tanδ	Thermal Index	UL File No. E173840		
產品名稱	粘度		固體含量 (%)			特性及應用	裸線直徑	漆膜厚度	耐熱衝擊		軟化擊穿	擊穿電壓	柔韌性		靜滑性係數	耐冷媒萃取性		耐冷媒 B.D.V. 殘存率		耐冷媒發泡性		介質損耗	耐熱指數	UL 認證號碼 E173840	
	Ford cup (#4)	Brookfield type	200°C ×2hr×1.5g	180°C ×1hr×1.0g	mm		μm	x	d	°C	°C	kV	%	x		d	R-22	R-134a	R-22	R-134a	R-22	R-134a	°C		°C
	sec 25°C	mPa·s 30°C															%	%	%	%	°C * 10min	°C * 10min			
NH AI 20PA	25±5	60±10	20.0±1.0	21.0±1.5	細線毛氈作業、耐熱性佳 For fine wire with felt coating. Excellent heat shock and freon resistance.	0.10	20	1	240	420	8.0	20	1	-----	-----	-----	-----	-----	-----	-----	290	220	V		
NH AI 32P	340±35	1000±250	32.0±1.0	33.0±1.5	作業性、耐熱性、耐冷媒性佳 Excellent heat shock and freon resistances. Good workability.	0.50	47	1	240	440	12.0	20	1	-----	0.05	0.03	98	98	160	160	285	220	V		
NH AI 27S	N/A	1500±300	27.0±1.0	28.0±1.5	大線單塗作業、拉斷露銅密著、可撓性佳 For large wire single coat application. Excellent adherence and flexibility.	1.60	70	1	240	430	14.5	15	1	-----	0.05	0.03	98	98	160	160	290	220	V		
NH AI 30S	N/A	2800±500	30.0±1.0	31.0±1.5																					
NH AI 30SCZ	N/A	2800±900	30.0±1.0	31.0±1.5	抗焊錫鼓泡、高耐軟化 Free blister for soldering process. High cut through.	1.60		1	240	460	14.0	15	1	-----	0.05	0.03	98	98	160	160	290	220	-----		
NH AI 30MSLK	220±20	700±150	30.0±1.0	31.0±1.5	自潤滑，滑性係數佳、往復式耐磨耗佳、外層批覆專用 Self-lubricating PAI enamel, excellent coefficient of static friction and abrasion resistance (reciprocative), use for top coat.	0.50 (Base coat: FEI 9838HMA)	55	2	220	365	14.5	20	1	0.04~0.06	0.11	0.07	96	98	140	140	200	-----	-----		
NH AI 30MLK	270±30	800±200	30.0±1.0	31.0±1.5	自潤滑，滑性係數佳、外層批覆專用 Self-lubricating PAI enamel, excellent coefficient of static friction, use for top coat.	0.50 (Base coat: FEI 9838HMA)	55	2	220	370	14.0	20	1	0.04~0.06	0.09	0.07	96	98	140	140	200	-----	-----		
NH AI 34HD	340±35	1000±250	34.0±1.0	35.5±1.5	高濃度低黏度，雙塗作業專用 High solid content with low viscosity, use for double coat.	0.50 (Base coat: FEI 0540)	45	2	240	390	12.0	20	1	-----	0.05	0.03	98	98	140	140	280	220	V		
NH AI 37HD	N/A	2000±400	37.0±1.0	38.5±1.5																					
PAO AI 27S	N/A	1500±300	27.0±1.0	28.0±1.5	扁平線、大圓線使用 It is suitable for rectangular wire. It can also be used for large round wire.	1.60	70	1	240	435	14.0	15	1	-----	0.05	0.03	98	98	160	160	290	220	V		
PAO AI 30S	N/A	2800±500	30.0±1.0	31.0±1.5																					
PAO AI 30W(WZ)	NA	1600±400	30.0±1.0	31.0±1.5	扁平線作業、密著性佳 For rectangular wire application, excellent adhesion.	1.60	75	2	240	395	11.3	25	1	-----	-----	-----	-----	-----	-----	274	220	-----			
PAO AI 33AOW	NA	2000±500	33.0±1.0	34.0±1.5	AI系塗料，耐油性佳，外層塗覆專用，傳統爐及高速爐作業性佳 AI series, excellent oil and water resistant, Top coat enamel, excellent working condition on tradition and fast machines.	1.20	45	2	240	390	12.0	20	1	-----	0.05	0.03	98	98	140	140	280	220	-----		

※ 耐熱衝擊符合 NEMA 標準  
※ The heat shock test conform to the standard of NEMA