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Technical Data Sheet — NanoPhos™ X2

NanoPhos™ X2 · EN ISO 17672 CuP 279 · Silver-bearing copper-phosphorus brazing alloy

Field	Value
Product	NanoPhos™ X2
Document ID	TDS.ABP.NanoPhosX2.EN.v1.1
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Effective	2026-10-10
Language	English
Family	Silver-bearing copper-phosphorus brazing alloy

1. Product Identification

Field	Value
EN ISO 17672	CuP 279
EN 1044	CP 105
DIN 8513	L-Ag2P
AWS A5.8	BCuP-6

EN 1044 is withdrawn and superseded by EN ISO 17672; designations shown for cross-reference.

2. Chemical Composition (wt %)

Element	Min.	Max.	Nominal
Copper (Cu)	–	–	91.8 (rem.)
Phosphorus (P)	5.9	6.7	6.2
Silver (Ag)	1.5	2.5	2

3. Impurity Limits (max. wt %)

Field	Value
Aluminium (Al)	≤ 0.01
Bi	≤ 0.030
Cadmium (Cd)	≤ 0.010
Lead (Pb)	≤ 0.025
Zinc (Zn)	≤ 0.05
Zn + Cd	≤ 0.05
Total other	≤ 0.25

4. Physical Properties

Field	Value
Melting range	645–800 °C
Density	8.1 g/cm³
Tensile strength	250 N/mm²

Composition ranges per the referenced standard; physical data as published by Advanced Brazing Products.

5. Available Forms

Wire, rod, foil and paste

6. Safety

Refer to the Safety Data Sheet (SDS) for handling, personal protective equipment, ventilation and first-aid measures.

7. Sources

EN ISO 17672 / ISO 3677 designations and composition ranges. Advanced Brazing Products published product data (www.advanced-brazing.com).

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