

Technical Data Sheet

CeTePox® AM 3562 A CeTePox® AM 3562 B – AM 3566 B

Characteristics Epoxy system for hand lay-up and with different hardeners for adjustable pot life

Properties and Fields of Application CeTePox® AM 3562 A cured with CeTePox® AM 3562 B – AM 3566 B results in epoxy systems for hand lay-up techniques with low exothermic heat, outstanding wetting and adhesion properties. The epoxy systems are suitable to produce high-performance laminates for automotive industry, marine applications, windmill rotor blades and sport equipment.
Due to special hardeners the range of pot life is between approx. 0.5 and 9 h. Additionally, the hardeners are miscible and can be used at the same ratio of 100:30 pbw to obtain intermediate pot life. The recommended curing temperature for all systems is 1h @ RT plus 2h @ 60°C and 8h @ 80°C. The resin systems do not contain any non-reactive components.

Typical Data – Resin

Property	Unit	AM 3562 A
Viscosity @ 25°C	mPa·s	1450 – 1750
EEW	g/eq.	183 – 197
Density @ 23°C	g/cm³	1.12 – 1.14

Typical Data – Hardener

Property	Unit	AM 3562 B	AM 3563 B	AM 3564 B	AM 3565 B	AM 3566 B
Viscosity @ 25°C	mPa·s	10 – 30	150 – 200	600 – 800	30 – 40	50 – 150
Amine equivalent	g/eq.	54	58	57	55	54
Density @ 23 °C	g/cm³	0.93 – 0.95	1.04 – 1.06	1.07 – 1.1	0.99 – 1.01	1.00 – 1.01

Mixing Ratio pbw 100 : 30

Typical System Properties

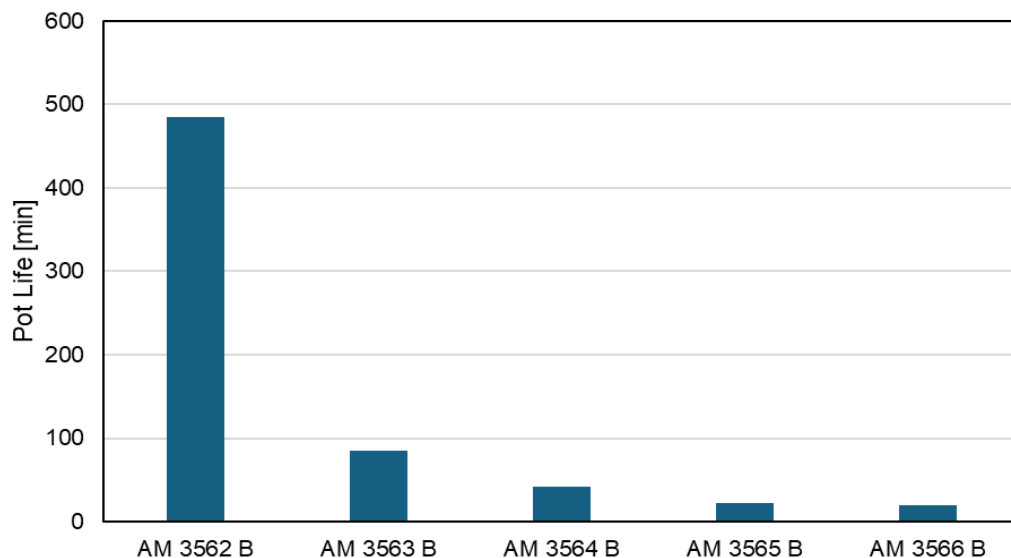
Property	Unit	AM 3562 A AM 3562 B	AM 3562 A AM 3563 B	AM 3562 A AM 3564 B	AM 3562 A AM 3565 B	AM 3562 A AM 3566 B
Viscosity of Mixture @ 25°C	Pa·s	0.39 – 0.41	0.85 – 1.05	1.1 – 1.5	0.50 – 0.55	1.05 – 1.30
Pot life (100g) @ 23 °C	min	470 – 500	80 – 90	40 – 45	20 – 25	15 – 25
Gel-Time @ 40 °C (DIN 16945)	min	-	35 – 50	45 – 55	-	-

Properties of Cured Resin

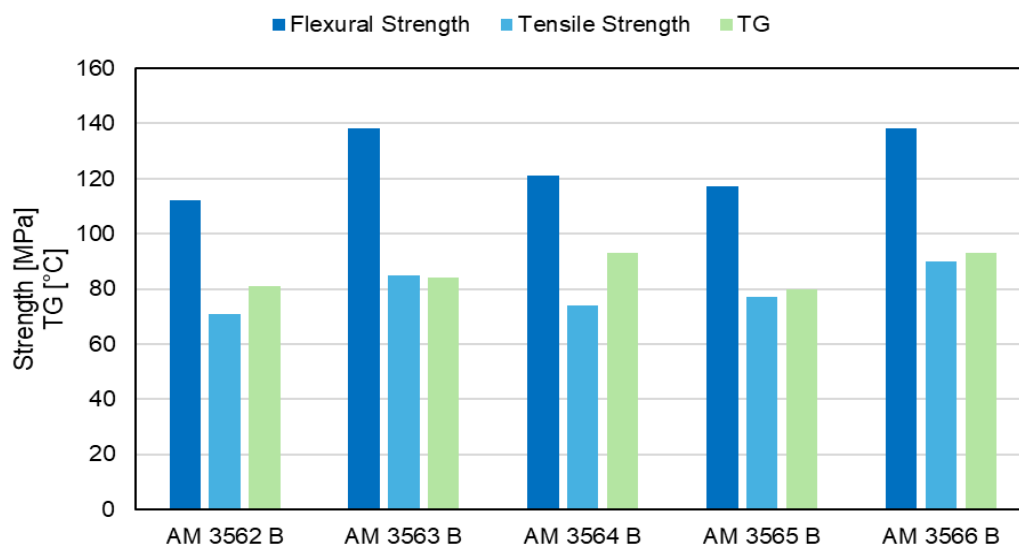
(Post-curing: 8h @ 80 °C)

Flexural Strength	MPa	112	138	121	117	138
Elongation at break	%	9.7	9.0	11.0	10.1	-
Tensile Strength	MPa	71	85	74	77	90
Elongation at break	%	4.7	6.5	6.2	4.7	-
E-Modulus (tensile)	MPa	2920	3120	3050	2990	3490
T _G 8h @ 80 °C	°C	81	84	93	80	93
T _G 24h @ RT	°C	-	48	55	-	-

Pot Life 100 g @ 23 °C



Mechanical Properties and Glass Transition Temperature



Shelf Life & Storage

Store this material in a clean, dry environment in its tightly closed original container. Resin and hardener are not considered especially temperature or moisture sensitive but should ideally be stored at temperatures between 15 - 40 °C and protected from moisture and sunlight. Storage at lower temperatures could lead to crystallization and may require the application of heat to reverse. If the product appears crystalline or is thicker than normal when opened, heat for 4-6 hours at 65°C to re-liquefy prior to use. If the recommended storage conditions are observed the resin will have a minimum shelf life of 12 months, hardeners of 24 months from the date of shipment.

Occupational Safety

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets

IMPORTANT: All product details and other technical information are based on carefully conducted tests. They describe the properties and conditions of our products, but do not constitute a guarantee as defined in § 443 BGB (German Civil Code). Due to each product's versatile processing and application, user shall be responsible for checking whether the respective product is suitable for its intended use. Any advice on the technical application of a product which we have given orally or in writing shall be non-binding.

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