

Technical Data Sheet



BONDING WIRE

Product Type: Aluminum Wire
Product Name: AluBond Plus
Product ID: Al Mg0.5%

Chemical Composition

Mg 0.5 % ± 0.05 %
 Residue: Al

Mechanical Properties (*)

Diameter	(Microns) (Mils)	200	300	400	500
		8	12	16	20
Elongation	(%)	> 10	> 10	> 10	> 15
Breaking Load	(cN)	270-430	700-950	1300-1700	2000-2700

Testing criteria for breaking load and elongation:
 Testing velocity: 10 mm/min - Test length of sample: 100 mm

(*) Technical parameters: The above parameters are standard values. Customized specification is possible after clarification with Heraeus technical staff. Further intermediate dimensions possible after clarification with Heraeus technical staff.

Mode of Delivery

Wire regularly spooled on polymer spools of type 3.5" or 4" PS-DF or on ConBig spools. Per spool only one single wire length. Start and end of wire get marked by adhesive tapes of different colours: start-green, end-red or per separately to be fixed agreement. Regular length per spool: see table or per separately to be fixed agreement. Mode of spooling: multiple layers. Alternative spool types by discussion with HERAEUS technical representative.

Surface

The wire surface is free from pollution, fingerprints and foreign substances. Inclusions, notches, big grooves and bends are not allowed. Slight rolling marks are permissible. Test at 12 x magnification.

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Spool Dimensions

Spool description - 3.5"-PS-DF	Spool description - 4"-PS-DF	Spool description - ConBig
Core diameter: 48 mm	Internal diameter: 10.2 ± 0.2 mm	Core diameter: 48 mm
Flange diameter: 82.5 mm	Outer diameter: 104.0 mm	Flange diameter: 120 mm
Internal diameter: 10.2 mm	Overall width: 20.0 mm	Internal diameter: 10.3 mm
With over windings: 25.0 mm	Material: Polystyrene	Overall width: 40 mm
Overall width: 30.7 mm		Material: Polystyrene
Material: Polystyrene		

Alternative spool types by discussion with HERAEUS technical representative.

Packing

Spools are single packed and arrested in a suitable, dust-safe polymer box, preventing ribbon and spool from damages and pollution.

Markings

Each single packed unit gets marked with a label carrying the following information:

- Wire type
- Specified diameter
- Length per spool
- Specified elongation
- Specified breaking load
- Lot no.
- Exp. date (12 months from time of mfg. date or as defined on the product label)
- Supplier name
- Description of wire start (tape colour)
- Barcode (code 39) for adequate parameters

Certificate of Quality

A *Certificate of Quality* gets supplied enclosed to each lot, providing the following information at minimum:

- Product identification (name, material, lot no., order no., customer name, mfg. & exp. date)
- Specification / tolerances / spool data
- Quality inspection test data / results

Additional Specification Details

Customer specifications can become valid in addition to this technical data sheet in case they have been set in place by mutual agreement.

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