

Guideline for the packaging of coin rolls in foil packs

Coin rolls meet the standard set by this guideline if

- they have been packaged by a coin rolling machine with an electronic authenticity detector and automatically wrapped into a roll of coins. Authentication can also be carried out on separate coin counting and sorting machines before the coins are rolled provided these machines are able to check authenticity electronically.

Counterfeits, suspected counterfeits as well as genuine euro coins which are no longer fit for circulation, foreign coins and other metal objects, such as medals and tokens which resemble euro coins are rejected in the process. Euro coins which are unfit for circulation are: genuine euro regular issue coins which have been damaged or whose technical parameters and authentication features have changed (dimensions, weight, colour, corrosion, damaged edges) either accidentally or as a result of having become worn after being in circulation for a comparatively long period of time, or coins which have deliberately been changed, but which are not counterfeits.

Machine wrapping is optically recognisable by a thickened, raised lump (beaded) on both sides of the roll paper;

- ten machine-wrapped coin rolls of one denomination are packed together in a single foil pack. The foil packs may contain coin rolls from various packagers provided they fulfil the standard set by the Bundesbank's guideline for the packaging of coin rolls. The coin rolls are to be packed in two parallel rows of five adjacent rolls in clear plastic foil (shrink foil or vacuum-wrapped foil bag). The technical specifications for the foil pack are documented in annex 1;
- the contents of the rolls match the data printed on the coin roll paper;
- the packager of the coin roll can be determined by an identification number (ID code) allocated by the Bundesbank;
- with respect to the producer and the depositor neutral roll paper is used which fulfils the following standards with regard to paper specification, colour, printing, imprint and content information:

Coin denomination	Rolls		Foil packs		Roll paper					
	€ amount	Number of coins	€ amount	Number of rolls	Colour		Paper width in mm	Minimum paper strength in g/m ²	Minimum bursting strength (Mullen)	
					Paper	Imprint			in kg/cm ²	kPa
€										
2	50	25	500	10	violet	black	79	80	1.8	180
1	25	25	250	10	yellow	black	82	80	1.8	180
Cent										
50	20	40	200	10	green	black	119	80	1.8	180
20	8	40	80	10	orange	black	109	80	1.8	180
10	4	40	40	10	blue	black	101	75	1.7	170
5	2.50	50	25	10	red	black	107	75	1.7	170
2	1	50	10	10	grey	black	107	70	1.6	160
1	0.50	50	5	10	white	black	107	70	1.6	160

Type of paper ZP 3 Wood pulp paper (ZP3) unbleached, smooth on one side (not lithograph label paper)
Fibre composition Minimum 70% fresh fibre/sulphite pulp
and
maximum 30% groundwood pulp or quality
recovered paper

Tearing length Crosswise at least 3,000 m
Lengthwise at least 5,000 m

Minimum bursting strength See table

Contents The value of the coin roll, the number of coins in the roll and the denomination of
coins are to be indicated on the roll paper as “(value) € (number of coins) x (nominal
coin value) €”.

Two annexes Annex 1: Technical specifications for foil packs
Annex 2: Roll paper