

This leaflet has been handed over by:

Industrieverband Schreiben, Zeichnen, Kreatives Gestalten e.V.

Praterstraße 34, D-90429 Nürnberg,
Phone: +49 (0) 911/27229-0, Fax: +49 (0) 911/27229-11,
e-Mail: info@ewima-isz.de
Websites: www.ewima-isz.de, www.schreiben-werben-isz.de

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Volume of Ink in Ballpen Refills



Voluntary agreement
of ISZ e.V. suppliers








Some jumbo refills offered in the market show a lower volume than customary standard refills.

These refills with lower filling quantity pretend to hold a higher volume and write longer than what can actually be achieved. This can mislead the buyer.

The members of ISZ e. V. as mentioned on the next page comply with the minimum filling quantities for ballpen refills. Refills not standardised with comparable dimensions have to comply with the respective minimum volume of the shown standardised refills.

With this agreement the mentioned suppliers document the high quality demands to their products.

The following suppliers of ballpens and refills organised in ISZ e.V. agreed on this publication:

Refill type	Designation ¹⁾	Minimum filling quantity (mg)	
		Plastic Refill ²⁾	Metal Refill
 Standard refill for ballpens	A1	250	400
 Standard refill for ballpens	A2	250	400
 Refill for multi-colour ballpens	D	³⁾	120
 Large capacity refill	G1	³⁾	800
 Large capacity refill	G2	700	1000

¹⁾ According to the international standard for ballpens ISO 12757-1: 1998 „Ball point pens and refills – Part 1: General use“
²⁾ For construction reasons with bigger wall thicknesses necessary plastic refills have a lower filling capacity than metal refills.
³⁾ No supplier known by the publishing date



For the contact data of these companies with the direct links and e-mail addresses please refer to www.ewima-isz.de or to the ISZ office.