Tegumentum stradneri THIERSTEIN, 1972


Figs. 7-15 — Tegumentum stradneri THIERSTEIN n. sp. Leg 14-137-14-2, 132-134 cm. 7) Scanning electron micrograph of the proximal side, 6500 x, holotype (4028) A918. 8) Phase contrast, 3200 x, same specimen as fig. 11. 9) Transmitted light, 3200 x, same specimen as fig. 11. 10) Cross-polarized light, 3200 x, same specimen as fig. 11. 11) Scanning electron micrograph of the distal side, 7000 x, paratype (4226) A919. 12) Scanning electron micrograph of the proximal side, 7000 x paratype (3024) A920. 13) Phase contrast, 3200 x, same specimen as fig. 12. 14) Transmitted light, 3200 x, same specimen as fig. 12. 15) Cross-polarized light, 3200 x, same specimen as fig. 12.

Description:

The wall is composed of about 40 elements with a strong dextral imbrication which are sepa-
rated by clockwise inclined sutures when viewed from the distal side. The wall is wider on the distal side than on the proximal side. The outer margin of the wall is covered by nonimbricate plates with only slightly clockwise-inclined sutures when viewed from the proximal side. These plates are connected by the small crystals which form the proximal rim. The central area is spanned by small diagonal crossbars which are composed of many small blocky crystals proximally and of elongated elements distally. The crossbars meet in the center and rise above the distal margin of the wall.

Dimensions: 4.5-9.5 μ.

Remarks:
This species is distinguished from Chiastozygus litterarius Gorka, 1957 by the presence of coverplates along the outer margin of the wall. Under crossed-nicols the rim appears wide and bright and each crossbar consists of two elongate parts of different crystallographic orientation.
Maximum diameter: 4.5 - 9.5 μ.

Type level:
Cenomanian.
Occurrence: Late Barremian-Maestrichtian.

Type locality:
DSDP Leg 14-137-14-2, 132 cm (Western Atlantic).

Depository:
The scanning electron microscope photographic negatives of the holotype, and paratype are deposited at the Naturhistorisches Museum Basel and identified by the Author's negative number (listed in round brackets) and by the Basel Museum collection number.
Holotype: (4028) A918; paratypes: (4226) A919, (3024) A920.

Author:
Thierstein H., 1972, p. 437, pl. 1, figs. 7-15, in Roth P.H. and Thierstein H.

Reference: