

DSS-M.03.01 | Mechanical Abrasion, Scoring, Impact & Cracking

Edge Micro-Chipping (minor)

Mechanical - perimeter/arris

Diagnosis summary

Small, bright edge fractures or “nicks” at or just inside the perimeter arris. Under raking light they present as sparkly facets; at higher severities they may form short “chip flanks” pointing into the face. “Micro-chipping” and “chip flank” are defined in VIS terminology and used here strictly as appearance/morphology cues (classification is appearance-only).

Field identification cues

- Pinpoint to sub-millimetre chips along the edge/arris; isolated or lightly scattered.
- Bright, faceted reflections in raking views; little to no continuous lineation across the face.
- More visible on dark backdrops; persistence after a Non-Invasive Reveal (clean & dry). Field Identification Cues (Normative)
- Surface-catch class (MSRT): SC-1 (slight) to SC-2 (clear) when the stylus traverses a chip that intrudes onto the exposed face.

Classification, severity and scope

- CAT-2 (Light): Small, shallow chips with SC-1 and clean edges, minimal visibility at standard view.
- CAT-3 (Moderate): Clear catch (SC-2) and minor chip flanks; noticeable at standard view.
- CAT-4 (Severe): Pronounced flanks and/or gross edge chipping extending onto the face; pits/craters present.
- CAT-5 (Out of in-place scope): If indicators show the condition is between panes/inaccessible (fixed parallax in IGU) → CAT-5 by location; refer per protocol.

Distinguishing criteria

- vs. Seamed/arris edge texture (P.03.01): Factory arris shows a uniform frosted band or fine grind lines with SC-0 on the adjacent face and no chip-flank sparkle. Do not conflate with damage.
- vs. Edge grind/polish pattern (P.03.02): Uniform, edge-parallel grind/polish appearance, SC-0 on the face; no bright chip facets.
- vs. Linear scoring (M.01): Scoring forms extended lines across the face with clear catch; micro-chipping appears as discrete edge nicks rather than a continuous track.

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in, normal + oblique; include raking macros of representative chips and at least one context frame showing overall edge continuity.
- MSRT result: Record SC-class (none/slight/clear) with one light, non-marring pass; on coated faces, prefer polymer stylus.
- M.03.01 - Edge Micro-Chipping (minor): Discrete, bright micro-chips along the perimeter arris observed under VIS geometry; MSRT on the adjacent face records SC-1/SC-2 at.

Safety / repairability boundary: Complete only the non-invasive reveal and inspection steps authorized by the controlling VIS guidance. Classification does not authorize restoration, establish acceptance, or override stop-work, coating, crack, integrity, access, chemical, fall-protection, or project-specific requirements.

Full DSS publication: use the catalog download. Web specification:

<https://a7df714357.nxcli.io/learning-center/resource-center/damage-specification-standards/dss-m-03-01-edge-micro-chipping-minor/>