

OCTAL STEEL | Technical Table

PSL-1 vs PSL-2 Under API 5CRA / ISO 13680**Recommended table for the article**

Control item		PSL-1	PSL-2	Technical meaning in specification work
Status in the document	Basis of the document		Additional requirement level beyond the base document	The difference is a change in qualification basis, not just a change in product label.
Intended product behavior	Base CRA technical delivery route		Product intended to be both corrosion resistant and cracking resistant	The required PSL should follow the service logic defined in the project documents.
Annex G linkage	Not defined in the public summary as the added route for cracking-resistance qualification		Public ISO summary links PSL-2 to Annex G	The project should not leave PSL open if Annex G-related qualification is part of the service basis.
ISO 15156 / NACE MR0175 linkage	Not described in the public summary as the added PSL route		Public ISO summary links PSL-2 to the ISO 15156 series / NACE MR0175 framework	Where sour-service or cracking-resistance qualification is part of the material review, PSL becomes a specification-control item.
Product scope	CRA seamless products for casing, tubing, coupling stock, and accessory material, including coupling stock and accessory material from bar		Same overall product scope	The PSL level does not change the basic product family, but it does change the technical basis applied to that family.
Connection of individual pipe lengths	Outside scope of the document		Outside scope of the document	API 5CRA / ISO 13680 is not a connection-performance standard.
Material affected by end sizing / connection manufacture / welding	Conformance to ISO 15156-3 / NACE MR0175 for such material is outside scope		Same boundary applies	Base supply compliance does not automatically close the later processing qualification question.
Marking after threading	Included by the standard		Included by the standard	Product identification remains part of the supplied threaded condition.
Groups recognized by ISO 13680:2024	Groups 1-5		Groups 1-5	ISO 13680:2024 applies to five groups overall, including Group 5 bar-only age-hardened nickel-base alloys.
API Monogram licensing note	Current public API LIF shows licensable PSL-1 scope for Groups 1-4 and certain bar-related scope		Current public API LIF shows licensable PSL-2 scope for Groups 1-4	Group 5 products are not eligible for API 5CRA Monogram licensing under the current public LIF.

Source basis for the table above: ISO 13680:2024 official abstract for the PSL definitions, scope, boundary statements, and five-group structure; API official 5CRA Licensing Information Form for current public Monogram licensing scope.