

SPR Sensordiscs

Ø 25 mm, thickness 1.0 mm. $n_d = 1,520$ (588nm)

Fit Optrel Multiskop instruments



2D Surfaces

Planar (2D) coatings. Typical thickness < 5 nm. For immobilization of ligand monolayers.

Product Code	Product description
SD AP	2D surface with primary and secondary amine functionalities
SD AU	Bare gold. Not derivatized.
SD BP	Biotin, covalently immobilized on a 2D saccharide monolayer.
SD CMDP	2D carboxymethyl-dextran surface.
SD CMPG	Dendritic polyglycerol, carboxymethylated
SD CMTEG	Tetraethylene glycol monolayer, carboxymethylated.
SD HZP	Hydrazide modified 2D carboxyl surface.
SD HPP	Hydrophobic planar alkyl layer.
SD NIP	Ni ²⁺ ions complexed on a 2D chelating surface.
SD OHP	Dense 2D saccharide layer. Not modified.
SD PAP	Protein A, covalently immobilized on a 2D carboxymethyl-dextran surface.
SD SAP	Streptavidin, covalently immobilized on a 2D carboxymethyl-dextran surface.
SD TEG	Tetraethylene glycol monolayer.
SD TP	Disulfide modified 2D carboxymethyl-dextran surface.

Hydrogel 3D surfaces

3 D immobilization matrices allow ligand multilayer immobilization for signal amplification.

The code ,x' or 'xx' represents different available hydrogel thicknesses and/or porosities. In the case of dextran based hydrogels, 3 different thicknesses (**20**, **50** and **200** nm) can be combined with 3 chain densities (**low**, **medium** and **dense**). The full product code would - for example - be SD CMD 50 D, which stands for **S**ensor **D**isc **C**arboxymethyl**d**extran **50** nm, **d**ense hydrogel.

The new hydrogel coatings of the C family are currently available in three different thickness / porosity combinations: SD C 30 M, SD C 80 M and SD C 150 D. The C type is based on a linear, synthetic polycarboxylate. Compared to the slightly branched dextrans it is better defined, shows a higher signal to noise ratio, and has improved diffusion properties (better curve fits) and a higher chemical stability.

Beside the C matrix, an alternative polymer with reduced negative charge density is available. This hydrogel, product code HC is recommended for applications with a high level of non-specific interactions. All derivatives of the C matrix are available on HC coatings at the same cost.

Product code	Product description
SD AC xx	Aminomodified linear polycarboxylate hydrogel. 30M, 80M, 150D
SD AD xx	Aminomodified carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD AG	Agarose hydrogel.
SD AL	Alginate hydrogel.
SD BC xx	Biotin, immobilized in a linear polycarboxylate hydrogel. 30M, 80M, 150D
SD BD xx	Biotin, immobilized in a carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD C xx	Linear polycarboxylate hydrogel. 30M, 80M, 150D
SD CMC	Carboxymethylcellulose hydrogel.
SD CMD xx	Carboxymethyl-dextran hydrogel. Any variety. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD CMPEG	Carboxymethylpolyethyleneglycol. Molecular weight: 6 kDa, alternative MWs upon request.

Product code	Product description
SD CX xx	Linear polycarboxylate hydrogel, NHS activated. 30M, 80M, 150D
SD D xx	Dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD GEL	Gelatin hydrogel.
SD HZC xx	Hydrazide modified linear polycarboxylate hydrogel. 30M, 80M, 150D
SD HEP	Heparin. Hydrogel, brush.
SD NIC xx	Ni ²⁺ ions complexed in a linear polycarboxylate hydrogel. 30M, 80M, 150D
SD NID xx	Ni ²⁺ ions complexed in a carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD PAC xx	Protein A, immobilized in a linear polycarboxylate hydrogel. 30M, 80M, 150D
SD PAD xx	Protein A, immobilized in a carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD PEG	Polyethyleneglycol. Molecular weight: 6 kDa, alternative MWs upon request.
SD PLY	Poly-L-lysine.
SD SAC xx	Streptavidin, immobilized in a linear polycarboxylate hydrogel. 30M, 80M, 150D
SD SAD xx	Streptavidin, immobilized in a carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D
SD TC xx	Disulfide modified linear polycarboxylate hydrogel. 30M, 80M, 150D
SD TD xx	Disulfide modified carboxymethyl-dextran hydrogel. 20L, 20M, 20D, 50L, 50M, 50D, 200L, 200M, 200D

Further, custom made coatings are available at similar prices upon request.

Complementary to the above surfaces XanTec bioanalytics GmbH offers immobilization service of individual ligands. This service includes selection of the optimal chip surface and of the immobilization chemistry, optimization of the immobilization parameters, functional testing and batch wise production of the derivatized, ready to use sensordiscs. As the time required to set up the immobilization process depends on the ligand and the application, please contact XanTec for an individual quote.

In connection with this product list or any quotation XanTec's standard Terms and Conditions of Sale will apply. The products listed above are protected by national and international patents resp. patent applications.

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