

Supplementary Materials: Unravelling the Role of Nitrogen in Surface Chemistry and Oxidation Evolution of Deep Cryogenic Treated High-Alloyed Ferrous Alloy

Patricia Jovičević-Klug ^{1,2,*}, Matic Jovičević-Klug ^{2,3} and Bojan Podgornik ^{1,2}

¹ Department, Institute of Metals and Technology, Lepi pot 11, 1000 Ljubljana, Slovenia; bojan.podgornik@imt.si

² Department, Jožef Stefan International Postgraduate School, Jamova cesta 39, 1000 Ljubljana, Slovenia; m.jovicevic-klug@mpie.de

³ Department, Max Planck Institute for Iron Research, Max-Planck-Straße 1, 40237 Düsseldorf, Germany

* Correspondence: patricia.jovicevicklug@imt.si; Tel.: +386-14701-990

Table S1. Electrochemical parameters, deduced from potentiodynamic curves and liner polarization measurements by Voglar et al. 2021 [1].

Steel Grade	Subgroups	Ecorr (V)	Rp (kΩ cm ²)*	DCT effect
AISI M35	CHT	−0.316	177	↑
	DCT	−0.304	227	

*The value is deduced from linear polarization measurements; scan rate was 0.1 mV·s^{−1}.

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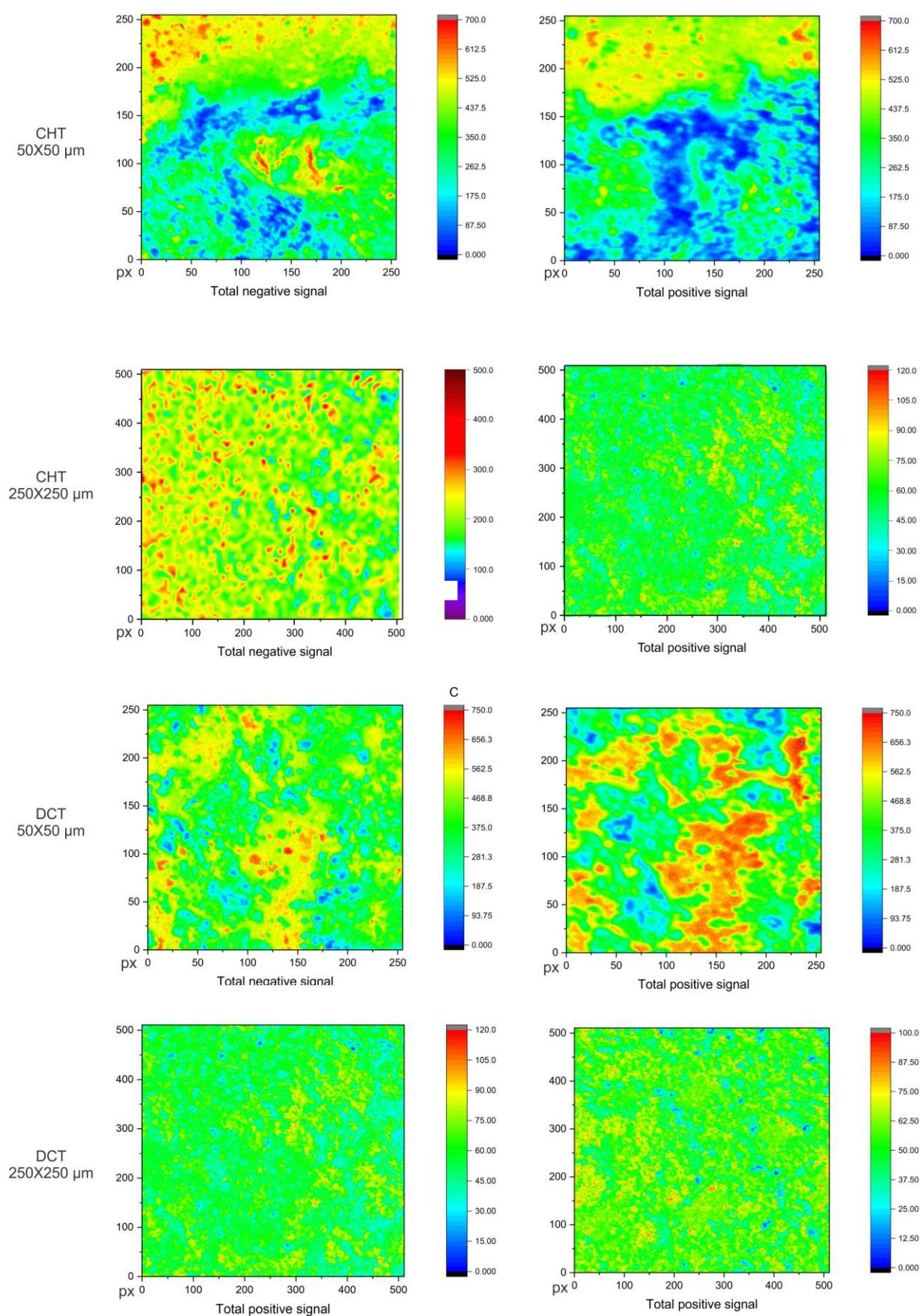


Figure S1. ToF-SIMS results for total-ion signal for positive and negative signal for all investigated samples.

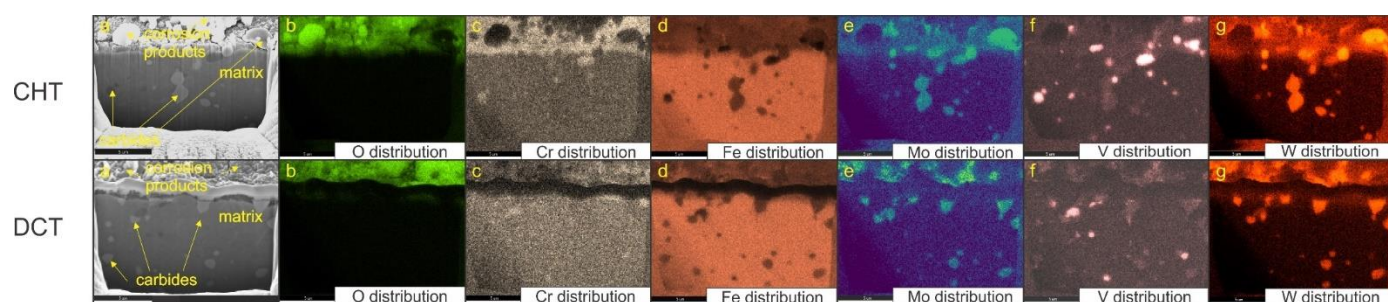


Figure S2. EDX mapping of cut samples results of alloying elements and oxygen in both conventionally (CHT) and deep cryogenic heat-treated samples (DCT) of selected AISI M35.