Acquisition of Porocel

26 August 2020





Porocel acquisition highlights

- Accelerated implementation of the growth strategy of Evonik's Catalysts business
- Complementary fit to Evonik's existing catalyst portfolio
- Available production capacities of Porocel offer considerable growth opportunities
- Catalyst rejuvenation technology reduces CO₂ emissions and supports circular economy
- EBITDA margin of ~23% clearly above Evonik's group margin target range
- \checkmark
- Attractive valuation with EV/EBITDA multiple of 9.1x



Porocel – Overview

Leading global provider of specialty catalysts and related services

Porocel

- Headquarter in Houston, Texas (USA)
- Ownership: privately held company
- Headcount: ~300 globally
- Locations: 6 manufacturing facilities in USA, Canada, Luxemburg, Singapore and China

Key products:

- Full suite of critical hydro-processing catalyst services, including a patented technology for highly efficient rejuvenation of desulfurization catalysts
- Leading supplier of purification adsorbents and sulfur recovery catalysts used in the petrochemical, fine chemicals and petroleum refining industries



ADSORBENTS, CATALYSTS & SERVICES



adj. EBITDA margin: ~23%



Evonik catalyst business

- Strong catalyst customization know-how and scale-up competencies
- Well positioned in "Fine Chemicals & Intermediates" segment for e.g. agriculture, food, pharmaceuticals
- Sales and EBITDA CAGR of ~10% since 2014 significantly above overall market growth

Porocel catalyst business

- Leading market position in the field of rejuvenation of desulfurization catalysts
- Core markets with attractive growth and trends towards sustainability and circular economy
- Established relationships with blue-chip customers in refining & petrochemicals
- Access to available production capacities with high economies of scale

Acceleration of growth strategy of Evonik's catalyst business Positioning from multi-niche to a leading supplier in the chemical catalyst market



Porocel product portfolio of catalysts and adsorbents enables reactor filling from one source

(Rejuvenated) de-sulfurisation catalysts

- Essential for the production of low-sulfur / non-sulfur fuels and petrochemicals
- Basic operation in refineries to remove sulfur and nitrogen compounds and other impurities
- The rejuvenation of used de-sulfurisation catalysts not only offers cost advantages but also makes a significant contribution to resource conservation

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Adsorbents and catalysts for sulfur recovery

- Adsorbents for the purification of raw material streams in modern refineries
- Claus catalysts for the conversion of hydrogen sulfide into solid sulfur complete the product portfolio

Porocel offers reactor filling from one source





Porocel addresses macro trends of sustainability and circular economy

Porocel addresses trends towards...

... Low-sulfur fuel: Stricter environmental regulations resulting in rising demand for desulfurization catalysts

... Circular economy & Decarbonization: Rejuvenation catalysts reduce carbon-dioxide emissions by more than 50 percent compared with the production of new desulfurization catalysts

... Trend from oil-based to bio-based or recycled refinery raw materials requiring comprehensive purification expertise of the material flows (e.g. desulfurisation)



Spotlight – Circular economy & Decarbonization Rejuvenation catalysts contribute to considerable CO2 savings





Spotlight – Porocel purification technology

Technology needed for crude oil and sustainable raw material sources



- Long-term trend from oil-based to bio-based or recycled refinery raw materials
- Requirement for purification of the material flows (e.g. desulfurisation)
- Porocel with comprehensive purification expertise and comprehensive product portfolio for this key technology





Acquisition of Porocel

Access to attractive end markets and free capacities as growth drivers

- Expansion of technology platforms
- 2 Significantly improved access to the refining and petrochemical market
- **3** Use of free production capacities for further growth in fixed bed catalysts





Spotlight – Evonik Catalyst business



- Catalysts as part of growth division Smart Materials
- >10% CAGR for EBITDA and sales since 2014





Combined productions sites

Porocel strengthens the global presence of Evonik's catalysts business





Catalysts play an important role in global key industries

>80% of all chemical products are made by use of a catalyst

Catalysts ...

- ... accelerate chemical processes while not being consumed during the reaction
- ... steer chemical reactions towards the desired products and avoid by-products and waste
- ... enable efficient chemical processes by using less feedstock and reduced energy consumption
- ... are ~1% of costs of the respective product value and offer resilient market growth of 4% p.a.

Key end markets





Refining catalysts



Environmental catalysts



