



A Better Breed of Steel for Tube and Pipe Producers and Fabricators

SCS stands for *Smooth-Clean-Surface*, an amazing flat-rolled steel offering valuable competitive advantages to both producers and users of welded seam tube and pipe. As a replacement for P&O or hot-rolled, SCS gives you product that's so smooth and clean it's ready to weld or coat right off the tube mill.

The patented SCS process feeds ordinary coils of hot-rolled through a series of steps – leveling, abrasive brushing, rinsing and drying. All dirt, grime and rust is removed. What remains is a microns-thin layer of mill scale that is mechanically bonded to the base steel and polished to a smooth, cold-rolled matte finish.

THE END OF RUST AS YOU KNOW IT

The SCS surface is more than just smooth and 'ultra-clean'. *It actually inhibits rusting*. No coating or oil is used and no special packaging is required. SCS resists rusting with normal handling and protected storage, giving it a 'shelf-life' that extends for many months and even years. And when coils with existing rust are run through the SCS process, the rust is removed and does not return.

This ability to resist rust eliminates a common cause of tube rejects. SCS also eliminates the unwanted cost of removing P&O's film of oil applied at the mill to keep the steel from rusting. The oil from P&O coils ends up everywhere – on your equipment, handling systems, clothing and, of course, on your product. With SCS there's no oil to remove. That's why a structural tube producer says SCS is '*ready-to-weld*' right off the mill. It's why SCS tubing for interior applications can also be painted 'right off the mill' *with no pre-treatment*. It's why SCS for exterior (exposed) applications can use a 'leaned-down' paint prep – just phosphate and rinse.

BOOSTING QUALITY AND PRODUCTIVITY

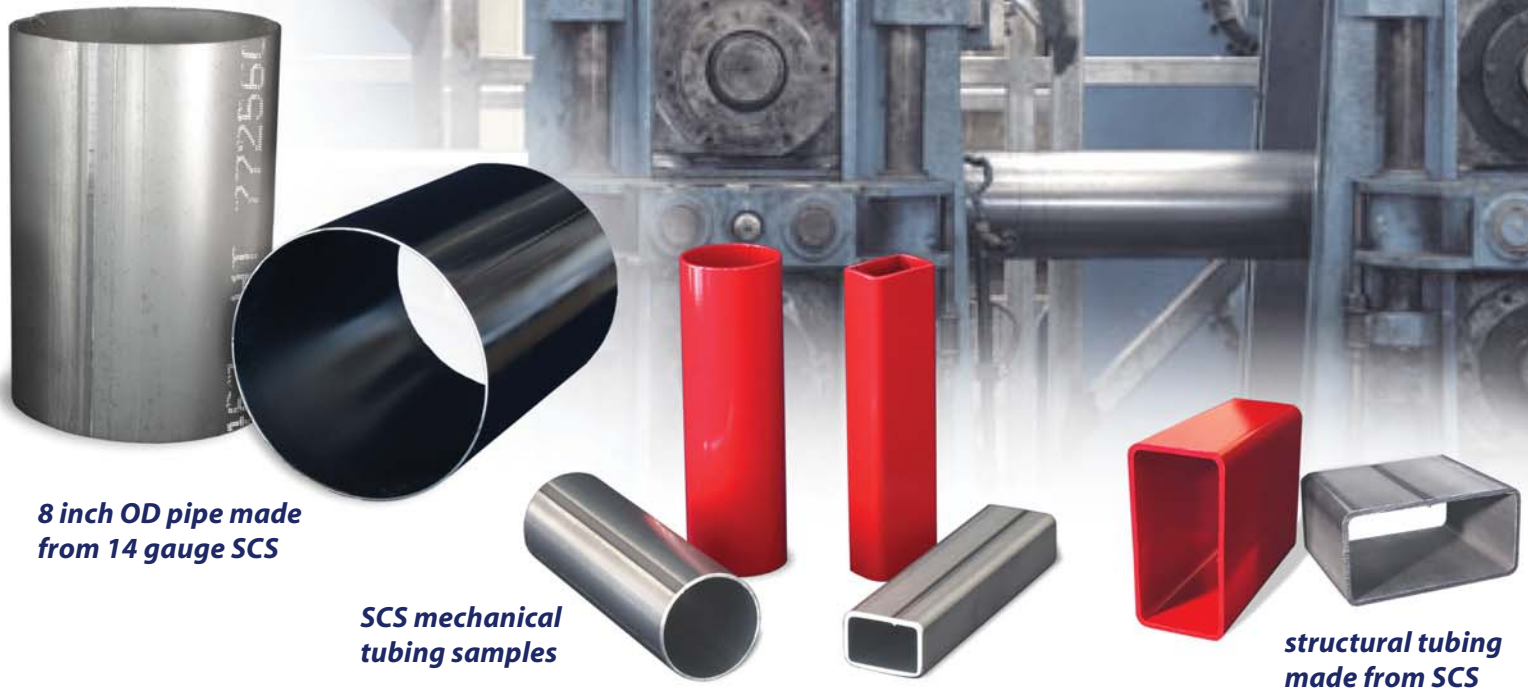
The remarkably smooth, clean SCS surface gives tube and pipe made from SCS a superior paint finish, even when using leaned-down paint prep. What about paint protection? Salt spray tests of painted SCS show its corrosion resistance to be comparable to P&O.

SCS also makes for better seam welding. With no oil to burn through and no dirt or loose scale particles to contaminate the welding area, SCS can yield a more uniform seam weld. So it's no surprise tube producers find that SCS lets them weld faster which, in turn, lets them run their tube mill faster.

Higher speed comes from cleanliness *and* excellent shape. In the SCS process, coils undergo a measure of tension-leveling to remove edge wave, bow and coil breaks. The resulting flatness is perfect for tube and pipe production. As one veteran mill operator said:

"This SCS is the nicest 14 gauge I've ever run, and I've been runnin' this mill for 20 years!"





8 inch OD pipe made from 14 gauge SCS

SCS mechanical tubing samples

structural tubing made from SCS

SUCCESSFUL APPLICATIONS

SCS coils have only been available a short while, but the list of successful tube and pipe applications is growing rapidly. From irrigation pipe to storage racks, from grain augers to conduit for fiber optic cables, SCS is touching a number of industries and an expanding base of satisfied fabricators.

These fabricators appreciate how clean SCS tubing is – how they can weld it without generating the excessive (*and hazardous*) weld fumes that burning off an oil coating causes. They like how it retains dimensional accuracy after laser cutting since trapped stresses in the steel are reduced by the tension leveling action of SCS coil processing. They especially like the prospect of leaner paint prep with SCS – the chance to reduce the concentration of iron phosphate used in prep or even eliminate the phosphating stage altogether.

ECONOMIC ADVANTAGES

Satisfied customers are reason enough for tube and pipe producers to switch from the P&O or hot-rolled they currently use to SCS. There is another compelling reason to switch to SCS – **higher profit margins!**

The reduction in rust claims from switching to SCS can certainly build your bottom line, but there are other potential savings from switching to SCS:

- **Higher throughput from faster weld speed.**
- **Freight savings – coils ship directly from the steel mill since pickling is not needed.**
- **UV-cured coatings are easier to apply to the clean surface of SCS tubes/pipes.**
- **Sourcing options – tubers who run only P&O or only hot-rolled can now run SCS.**

The beauty of SCS is you capture these benefits right from the beginning. There's no need to modify your facility, train personnel or change your processes or operations. In fact, the only changes may simply be eliminating nuisance jobs like grinding/blasting away rust or wiping off oil

GETTING STARTED WITH SCS

To trial SCS for yourself, give us a call. Whether three coils or thirty, we'll toll process your material and even support your early application and selling efforts. We can also introduce you to licensed SCS producers who supply the steel itself.

If you are a large volume tube and pipe producer, you may want to invest in your own SCS production system to enjoy even more attractive returns. Whatever is best for you, it all begins with that first trial coil of SCS.

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