

Docol Tube R8

Extra High Strength Tubes for Racing and Safety Applications

General Product Description

Docol Tube R8 is a product range of TIG welded cold sized circular tubes in high strength steel, intended for applications requiring a combination of extremely high performance and lean design.

Docol Tube R8 is produced using tube designated SSAB high strength steel, with high yield strength in combination with excellent bending and welding properties.

Docol Tube R8 is approved as an allowable material in the SFI specifications for roll cages in different types of drag racing vehicles.

Applications

Docol Tube R8 is developed especially for roll cages, racing car tube chassis, and similar safety components.

Units

Docol Tube R8 tubes can be ordered in imperial or metric units.

Dimension

Docol Tube R8 tubes are produced with narrow tolerances, intended to fit into each other (some exceptions apply). Both inner and outer weld beads are removed for perfect fit.

A number of selected dimensions of Docol Tube R8 can be ordered from stock. Customized dimensions can be produced upon request.

	Thickness mm	Diameter mm	Thickness, inches	Diameter, inches
Total span	0.5 - 4	16 - 54	0.019 - 0.157	5/8 - 2 1/8
Stock items	1.25 - 2.50	19 - 50	0.049 - 0.095	3/4 - 2

Exact lengths of 6 000 mm -0/+10 mm. Other lengths upon request

Mechanical Properties

During the tube manufacturing the steel tubes undergo controlled mechanical hardening which contributes to the final mechanical properties of the products.

Inspection and mechanical tests on the tubes are performed according to EN 10305-3.

Profile grade	Yield Strength $R_{p0.2}$		Tensile Strength R_m		Elongation $A_{50}\%$
	MPa min	ksi min	MPa min	ksi min	min
Docol Tube R8	690	100	800	116	13

Chemical Composition

Thickness	C % max	Si % max	Mn % max	P % max	S % max	Al % min	Other alloying elements
0.5 - 4.0	0.16	0.4	2.10	0.03	0.01	0.015	Nb, Ti, Ni

Tolerances

Tube tolerances are according to EN 10305-3.

Delivery condition

The tubes are not intended to undergo any heat treatment after welding and sizing as that may alter the mechanical properties of the material.

The tubes are oiled with anti-corrosive oil.

Fabrication and Other Recommendations

For information concerning fabrication, see SSAB's brochures on www.ssab.com/downloads or consult Tech Support, help@ssab.com.

Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product.

Contact and Information

For further information about the possibilities and practical benefits of Docol Tube R8, please contact us at tubes@ssab.com, visit our website www.ssab.com/shape or contact any of our sales managers.

Tech Support will be pleased to assist you with additional technical information concerning this SSAB product.